Paul Borgen

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Profile

Results-driven and highly resourceful professional with hands-on experience in leading project operations, developing deliverables, and directing diverse teams to ensure project success.

Proven track record of managing projects from initiation to completion within established timelines while maintaining compliance with quality standards. Skilled in analyzing and modifying existing software, designing patterns, testing applications, and supporting systems to fulfill customer requirements. Highly motivated in project execution, with the ability to work effectively both independently and within teams to deliver best-in-class solutions to customers and organizations. Clear communicator with a strong ability to build relationships across all levels of management, stakeholders, clients, and vendors.

Skills

Team Leadership	Mentoring	Software Architecture	Collaboration
Claude Code	Terraform	GoLang	TypeScript
Java	PLSQL	Smart Contract Engineering	Blockchain Data Processing
Computer Vision	Oracle	Unit Testing	CI/CD Pipelines
Scrum	Jira	Test Automation	

Work Experience

05/2025 – present
Remote, USA

Principal AI Engineer
Alopex

Leading technical architecture and strategy for next-generation healthcare platforms that revolutionize care coordination in medical organizations.

- Architecting scalable, HIPAA-compliant, multi-tenant patient management systems using AWS and GoLang
- Driving development with GoLang, TypeScript, and modern tooling (TanStack, Vite)
- Designing secure authentication and role-based access control systems to ensure data privacy
- Building intelligent workflows for referrals, eligibility verification, and care team coordination
- Establishing engineering best practices and mentoring the development team to enhance delivery
- Developing AI-driven software that improves patient outcomes and streamlines clinical operations

07/2021 – 03/2025

Co-Founder / CTO
Mintra

Leading a global distributed team to build all aspects of the NFT marketplace. Utilized Slack and Jira for effective communication and project planning. Mintra exemplifies innovation and technical expertise, emerging as the leading NFT

marketplace on Pulsechain.com. The platform, fully developed in-house, combines sophisticated backend architecture, robust smart contract engineering, and intuitive user experience design.

- Created and implemented the initial software architecture, design, and all smart contracts.
- Ensured all smart contracts underwent a full audit and have proven secure to date, using Foundry and Hardhat with a comprehensive suite of unit tests.
- Architected a data pipeline that has processed millions of NFTs and thousands of collections.
- Developed a distributed locking workflow capable of processing blockchain data in a distributed, deterministic manner.

02/2020 – 07/2021
United States

Software Engineering Consultant
Precision Point Systems

Engaged to evaluate and refine a sophisticated computer vision system designed for precise tracking of a football on the field. This project leveraged advanced C/C++/GoLang programming to manage an array of high-resolution cameras monitoring the game in real-time. Our task involved capturing images from these cameras and employing a custom AI model that I trained to determine the exact position of the football with pinpoint accuracy. OpenCV was integral throughout this process. This initiative not only showcased cutting-edge technology in sports analytics but also expanded the capabilities of computer vision applications in dynamic environments.

- Stabilized the system for reliable use during live games.
- Successfully deployed the system for UCONN football games at Rentschler Field.
- Achieved measurement accuracy down to the pixel level from the camera, equivalent to approximately half an inch.

06/2016 – 02/2020

Advanced Software Engineer (Solutions / DevOps / Analytics)
Honeywell

Developed and maintained multiple external interfaces within metering infrastructures. Executed key operations including database design, performance optimization, and backend development. Strengthened security by enhancing the enterprise security API (ESAPI) and reducing vulnerabilities to XSS and XSRF attacks. Drove performance improvements through efficient SQL queries and advanced threading strategies.

- Updated several backend applications to utilize Spring and Hibernate, resulting in a simplified architecture and faster turnaround times in subsequent sprints.
- Customized and applied ESAPI implementations to enhance security across all business suite applications.
- Led security reviews by analyzing penetration testing reports and implementing required fixes.
- Introduced unit testing methodologies and strategies to improve code quality within the team.
- Migrated the codebase from SVN to GIT to streamline version control workflows.
- Created a CI pipeline using Jenkins, enabling end-to-end automation in the continuous integration process.
- Led distributed teams and innovated SDLC and communication methods to enhance collaboration and delivery.

07/2012 – 06/2016
Raleigh-Durham, North
Carolina Area

Senior Software Engineer
Honeywell

Developed and maintained multiple external interfaces within metering infrastructures. Executed key operations including database design, performance optimization, and backend development. Enhanced security by advancing the enterprise security API (ESAPI) and reducing vulnerabilities to XSS and XSRF attacks. Drove performance improvements through efficient SQL queries and threading strategies.

Work Experience

Noted Accomplishments:
- Updated several backend applications to leverage Spring and Hibernate, resulting in simpler architecture and faster sprint turnaround times.
- Customized and utilized ESAPI implementation to strengthen security across all applications in the business suite.
- Introduced and established unit testing methodologies and strategies within the team.
- Migrated the codebase from SVN to GIT.
- Created a CI pipeline with Jenkins and enabled end-to-end automation in the CI process.
- Led offshore teams over multiple years within a Scrum SDLC environment.

06/2010 – 07/2012

Web Application Developer
CARQUEST Technologies, LLC
Worked on innovating the auto parts inventory and management system by analyzing existing VB6 applications to understand data flow. Migrated and integrated this data into a J2EE application I developed, utilizing a combination of Java and PLSQL to enhance data processing speed.

08/2008 – 06/2010

QA Team Lead
Pratt & Whitney
Spearheaded the automation of testing processes for applications processing real-time jet engine data via FADEC (Full Authority Digital Engine Control). Collaborated closely with aerospace engineers to gather and refine testing requirements, ensuring alignment with engineering objectives and operational constraints. Translated engineering requirements into detailed test plans, leading the team through manual testing to validate application performance. Designed and implemented comprehensive automation suites by converting manual test plans into automated tests, significantly enhancing efficiency and reducing error rates. Managed team workflows, delegated tasks effectively, and facilitated seamless collaboration between testers and engineers to deliver robust, reliable testing solutions.

- Maintained a testing suite in Mercury Quality Center.
- Validated 4 J2EE applications.
- Developed detailed Test Plans.
- Created a Java program to verify database population accuracy.
- Collaborated with top Aerospace and Mechanical engineers to define testing requirements.
- Built testing suites using VBScript (QTP) and later Selenium for automated functional testing.

04/2006 – 08/2008

J2EE Developer
BenefitsXML
Worked on a healthcare benefits management application developed using J2EE technology. Being part of a startup with a small team provided valuable exposure to various roles and disciplines within a software company. This role involved working with J2EE technologies such as Struts, XSLT, and Servlets. I contributed as a member of an agile development team operating in a fast-paced environment with tight deadlines. The product was an HR application featuring a mid-tier and front-end server that communicated through XML messaging.

- Created JSPs, Form-beans, Actions, and XSLT for front-end Struts development.
- Automated unit testing processes.
- Developed and maintained an automated functional testing suite using JWebUnit/HTMLUnit.

02/2004 – 04/2006

Junior Software Developer
Aetna Insurance
Developed a data loading application to ingest actuarial data from Excel, cleanse it,

Work Experience

and load it into a VB6 application for verification. After verification, the data was forwarded to the IT business department for integration into a larger system for company-wide data processing.

- Collaborated with actuaries and software engineers to understand requirements for data cleansing and processing.

04/2006 – 08/2008

J2EE Developer
BenefitsXML
Worked on a healthcare benefits management application developed using J2EE technology. This startup environment with a small team provided exposure to multiple roles and disciplines within a software company. Responsibilities included working with J2EE technologies such as Struts, XSLT, and Servlets. Collaborated as part of an agile development team in a fast-paced setting with tight deadlines. The product was an HR application featuring a mid-tier and front-end server communicating via XML messaging.

- Created JSPs, Form-beans, Actions, and XSLT for front-end Struts development.
- Automated unit testing processes.
- Developed and maintained an automated functional testing suite using JWebUnit/HTMLUnit.

Education

12/1999 – 12/2004

Computer Science | Bachelor of Science - BS
Central Connecticut State University

Central Connecticut State University

Certificates

11/2019

AWS Certified Cloud Practitioner
Amazon

01/2020

AWS Certified Solutions Architect - Associate
Amazon Web Services (AWS)

01/2014

Certified Ethical Hacker
EC-Council
http://www.eccouncil.org/Certification/certified-ethical-hacker