

# Ben Northrop

Software Architect and Full Stack Developer

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upon request

## SUMMARY

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- 20 years of experience in designing and developing software applications on over 25 different engagements, focused primarily on enterprise-scale Java systems and components.
- Proficient with concepts and techniques of BDD, TDD, OOA, OOD, AOP, Design Patterns, and agile development processes like XP, Scrum, Kanban, and Lean.
- Dedicated to producing quality work; implemented two open source tools for analyzing and reporting on internal code quality.
- Enjoys challenges, thrives in teams, hard worker, excellent communicator, and strong writing skills.

## SKILLS

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### Backend

Spring Boot, Hibernate, MyBatis, NodeJS, ExpressJS, RabbitMQ, Spring

### Frontend

React, Angular, SCSS, JQuery, GWT

### Languages

Java, Groovy, Javascript, Python, PHP, SQL

### Devops

Maven, Git, Gitlab CI, Docker, Kubernetes, OpenShift, Jenkins, Splunk, Elastic Search, Ant

### Data Stores

Oracle, SQL Server, MongoDB, MySQL, Ingres

### Tools and Libraries

Mahout, Shedlock, Grinder, Selenium, Cucumber, JUnit, JavaCC

### Patterns and Specs

OAuth2, Responsive, Microservices, Event Driven, Reactive

### AWS

Elastic Beanstalk, S3, CloudWatch, Lamda, EC2, RDS

## WORK EXPERIENCE

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### Principal Technical Consultant and Owner

Oct 2018 - Present

Highline Solutions

Full-stack Development

- Designed and implemented critical menu configuration structures and logic as well as front-end web views for the rewrite of an online ordering system. (React, SCSS, Java, Spring Boot, MyBatis, Groovy, SQL Server)

- Investigated a business critical legacy component with a history of reliability and quality concerns and then planned for and led an incremental rewrite based on the Strangler design pattern. (Architecture, Java, Microservices, REST, Spring Boot, MyBatis, SQL Server, RabbitMQ, Shedlock, SQL)
- Integrated a proprietary ordering system for a food service client with over 500 locations with the Uber Eats API, designing for maximum resilience and up-time. (Java, Microservices, Spring Boot, REST, Splunk)

#### Architecture

- Embedded with an architecture team for a large health insurance provider, helping to investigate and prototype key architectural and devops improvements. (Architecture, OAuth2, Git, Docker)
- Led a team of four to build a daily sweepstakes content for an online ordering platform, optimizing for security and monitorability to prevent fraud. (Java, Microservices, Spring Boot, REST, Splunk)
- Performed architecture for a variety of small to mid-size companies with varying goals, from rewrite-or-refactor to MVP feasibility. (Architecture)

#### DevOps

- Built out the backend foundation and devops pipeline for a commercial real estate application, including security, logging, persistence, and business logic. (NodeJS, ExpressJS, Javascript, OAuth2)
- Worked with a higher-education client to optimize their DevOps pipeline, building custom Git hooks, modifying build scripts, and tweaking application code. (Python, Git, Gitlab CI, Maven, Java, Jenkins)
- Assisted with strategy, prototyping, and rollout of an effort to containerize an ecosystem of 30+ services formerly hosted on virtual machines. (OpenShift, Microservices)

## EDUCATION

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### **MS in Philosophy: Logic, Computation and Methodology**

Aug 2004 - May 2011

Carnegie Mellon University

Thesis: Automated Diagrammatic Reasoning: A proof-checker for the language of E

### **BS in Information and Decision Systems**

Aug 1995 - May 1999

Carnegie Mellon University

3.67 QPA (4.00 scale)