Nicholas Reuter

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Skills

Java | Spring Boot | SQL | MongoDB | Hibernate | Flyway | Liquibase | Docker | Jenkins | Github Pipelines | AWS | PCF | NodeJS | React | TypeScript | Cypress | OpenAPI | REST API Design | GraphQL | TDD | Pairing | Extreme Programming Practices | Agile Development Practices | eXtreme Programming Principles | Lean Startup Methodologies

Work Experience

Senior Software Engineer: WillowTree LLC, Charlottesville, VA (Remote) **May 2022 - Current**

- Worked as an embedded fullstack engineer on a client engagement while teaching best practices like Test Driven Development and helping reduce the number of bugs while delivering a high number of features quickly
- Collaborated closely with the mobile team to develop the best API design for their use during a tight timeframe, speeding up delivery through consistency and predictability and increasing collaboration between design, product, and engineering
- Onboarded new engineers fast during a twofold increase in engineering team size while meeting an important client deadline
- Designed SDKs for the client's new Auth Server that significantly simplified interactions with the service for other teams
- Worked with client architecture to improve solutions and reduce scope for feature delivery with heavy time / budget constraints
- Implemented a mix of OAuth 2.1 standards and client requests for a custom client Auth Server to replace existing solution
- Adjusted industry standards to meet client ways of working when limited by pre-established patterns and hierarchy, maximizing value added while minimizing disruption to existing processes

Software Engineer: Ford Motor Company - FordLabs, Ann Arbor, MI **January 2018 - May 2022**

- Worked on many consumer facing fullstack products built in three month increments. Each increment was built around getting a product in front of a user as quick as possible and measuring the response to determine next steps using Lean Startup and eXtreme Programming practices
- Developed in pairs using Test-Driven Development and other extreme programming practices to ensure peak delivery speed while maintaining quality code
- Wrote and maintained an open source remote retrospective tool built on a Spring Boot backend and Angular frontend to streamline internal company agile processes
- Implemented public facing used car website to aggregate dealer listings and make shopping for a used car easier through the use of guaranteed features on vehicles and filtering based on one or two "most important" categories. Built on an Angular2 frontend, a Spring Boot backend, and using AWS infrastructure
- Built a React Native app on Android and iOS for drivers to use while testing goods delivery with autonomous vehicles
- Mentored junior engineers while pairing and presented informative talks during weekly Lunch-and-Learn sessions
- Performed phase II candidate interviews involving a test related to paired programming and TDD in the style of Pivotal Labs's Repeatable Programming Assessment
- Implemented each team's CI/CD pipeline and deployment strategy, including GitHub actions/Jenkins pipelines, blue-green deployments, application performance metric monitoring and interpretation, PCF workspaces / AWS VPCs, and artifact-based deployments

Software Engineer: Ford Motor Company, Dearborn, MI **June 2016 - January 2018**

- Built and maintained high throughput multiple microservice system and rules engine responsible for customizing/configuring and ordering Ford vehicles
- Contributed to large codebase using Spring Boot REST API and MS SQL Server
- Developed in a five pair environment where each pair was working off of main thanks to the support of robust testing pipelines and zero downtime deployments
- Maintained microservice architecture to enable high availability and opportunistic scaling while keeping average transaction time below our SLA of 250ms
- Implemented metrics and monitoring to quickly spot defects and outages
- Added new functionality based on stakeholder prioritization using Agile methodologies
- Set up nightly automated load testing and a set of continuous "canary" tests to verify system readiness and integrity

Education

Michigan State University - BS in Computer Science 3.53 GPA **September 2013 - May 2016**