

# Peter Swartwout

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Solution Architect / Lead Developer available for challenging engineering opportunities.

## Core Competencies

### Full-stack web development

Backend: Kotlin+Spring, Java+Spring, Node.js, Ruby on Rails, Python+FastAPI

Frontend: Typescript, React, Vue, Redux, React Context, React Native, AngularJS

Databases: Postgres, MySQL, SQL Server, Redis, MarkLogic

### REST / GraphQL

Rapid API development on multiple projects to deliver RESTful or GraphQL web services, data persistence and legacy system integration.

### Security / Single Sign-On

Multi project experience implementing authn/authz/SSO using Auth0 or Okta with Spring Security or Ruby on Rails. I have also hand-coded SAML 2.0 when appropriate.

### DevOps

Hands-on experience in all aspects of build-and-deploy pipelines, including Github Actions, Docker, AWS, GCP, Terraform, Kubernetes.

### Leadership / Management

Multi-project experience leading teams from start to finish on complex projects. Thought leadership on all aspects of software development. HR and people management experience for 3 years.

## Employment History

### **Artisan Solutions LLC** *2023-present*

*Owner, Principal Consultant*

### **Focused Labs** *2021-2023*

*Lead Software Consultant / Engineering Manager*

### **Global Specimen Solutions, a Labcorp company** *2017-2021*

*Principal Software Engineer / Team Lead*

### **Artisan Solutions LLC** *2013-2017*

*Owner, Principal Consultant*

### **Summa Technologies** *2009-2013*

*Senior Technical Consultant*

## Project History - Artisan Solutions

*Listed most recent first. This is my consulting company. I usually work as a sub-contractor with a services firm.*

### SE Healthcare

#### *Burnout Prevention Program*

Current project. As a contractor with **Robiti**, I improved code quality and deployment reliability by creating new environments in AWS and introducing gitflow SDLC to the team.

I am currently integrating the Burnout Prevention Program with new data sources from customers, to better visualize the link between nurse burnout and patient outcomes.

My role is full-stack developer and devops consultant.

*The architecture is Ruby on Rails serving a REST API to a React front end.*

### An automated kitchen

#### *Robotic Visualization Software*

I returned to this project to update their touch-screen app with a new UI design and many enhancements. Contractor with **Robiti**. The touchscreen UI is coded in Vue.js 3 with a C++ backend.

My role was lead front-end developer. The team was 3 devs and 1 designer.

*The architecture is C++ on the backend, Vue.js on the frontend, web socket integration.*

### SE Healthcare

#### *Burnout Prevention Program*

As a contractor with **Robiti**, I helped SE Healthcare modernize their Ruby on Rails source code, improve deployment strategies, enhance their testing infrastructure and make recommendations.

*The architecture is Ruby on Rails serving a REST API to a React front end.*

### Sheets

#### *Site Reliability Engineering*

As a contractor with **Highline Solutions**, my team documented business processes, analyzed Splunk logs and source code to find reliability vulnerabilities, improve alerting strategies and make recommendations.

*The architecture is Java micro services using REST and RabbitMQ integration, deployed with Docker & Kubernetes.*

### PODS Moving & Storage

#### *Website modernization*

As a contractor with **Focused Labs**, my team added new features and modernized existing features on the **PODS** website.

My role was front-end developer working in React & Typescript. Team was 5 devs and 1 designer.

*The public website uses a legacy CMS platform which is gradually being migrated to React.js.*

### An automated kitchen

#### *Robotic Visualization Software*

This project created a touch-screen app for a kitchen robot fulfilling food orders. The app provides both visualization into the real-time robot state and a control panel for operators. As a contractor with **Robiti**, I coded new UI features,

improved existing UI and gradually migrated global state to Pinia. The touchscreen UI was coded in Vue.js 3 with a C++ backend.

My role was front-end developer. The team was 3 devs and 1 designer.

*The architecture is C++ on the backend, Vue.js on the frontend, web socket integration.*

## Project History - Focused

Listed most recent first. **Focused** is a software services partner for many highly successful companies. I was a full-time employee at Focused.

### Special Projects

#### *AI Knowledge Hub*

An internal project expanding our AI and ML skills while providing an AI chatbot for use on the company website. Try it out at the **Focused** home page in the lower-right corner.

My roles were Python developer and React developer. Team was 3-5 with 2-4 devs and 1 designer.

*The architecture is Python, FastAPI, LangChain and Llama index on the backend, React.js on the frontend, REST API integration.*

#### *Mobile white-label app*

We implemented a prototype mobile app using React-native. The business domain was restaurant ordering and loyalty programs.

My roles were Kotlin / Spring boot developer and React-Native developer.

*The architecture is Spring Boot / Kotlin on the backend, React-native / Expo Go on the frontend.*

### Ford Pro

#### *Customer-facing Marketplace*

Focused Labs helped **Ford Pro** build out their services marketplace for fleet (commercial) customers. Key outcomes are faster time to market, lower data input error rates, several microservices extracted from a monolith.

My roles were solution consultant, Java / Spring Boot developer and Vue.js developer. Team size was 5 devs, a product manager and a UI designer.

*The architecture is Spring Boot and Java/Kotlin on the backend with SQL Server persistence. Vue.js on the frontend, REST API integration.*

### BTR Energy

#### *Client Information Portal*

We built a web application for use by **Bridge to Renewables**, enabling energy credits for electric vehicle manufacturers selling cars in California. Data delivery to the React FE is GraphQL. Includes several 3rd-party REST integrations, notably to the Electricity Maps API to retrieve live emissions data.

My roles were solution consultant, Kotlin / Spring boot developer, React developer. Team size was 2 devs and an engineering manager.

*The architecture is Spring Boot backend, written in Kotlin with Postgres persistence. The frontend is React and Typescript. REST and GraphQL API integration.*

### Hertz

#### *Ride-share integrations*

We partnered with **Hertz** to help them expand their business into ride-share apps. This resulted in thousands of new rentals each year, including electric vehicle rentals never available before.

My roles were team lead, tech lead, solution consultant and Kotlin / Spring Boot developer. The team size was 4-6.

*The architecture is Spring Boot backend, written in Kotlin with Postgres persistence. Many integrations to legacy systems. There is no frontend. This was an externally-facing REST API.*

## Project History - Labcorp

Labcorp is an international supplier of clinical lab services, drug development, research and medical services.

### Global Specimen Solutions, a Labcorp company

#### GlobalCODE

**GlobalCODE** is a SaaS platform for use in translational medicine. Scientists use it to track and visualize specimens collected in clinical trials around the world.

My roles were team lead, tech lead, Ruby on Rails developer and AngularJS developer for a team of 5 developers and 2 QA testers. I was also HR manager for 2 of the developers.

*Ruby on Rails serving REST to a hybrid Angular/Angular.js UI. Data visualization with AWS QuickSight. Clients are securely hosted in the AWS cloud utilizing EC2, RDS, S3, ECS and Route 53.*

## Certificates / Honorariums

### Equal Experts

In 2024 I was invited to join the network of **Equal Experts**, a global consulting and software services firm based in London. This followed a coding test with a pair programming code review and subsequent interviews. I consider it an honor to be included in their network, even though scheduling difficulties and skills alignment has so far stood in the way of me working on a project with them. I look forward to working on a project at some point, here in North America or in the UK.

## Education

### Portland State University

Portland, OR

Major: Computer Science

Graduated: Bachelor of Science, Magna Cum Laude

### Lane Community College

Eugene, OR

Major: Electronics Engineering Technician

Graduated: Associate of Science, Summa Cum Laude

### Northwestern University

Evanston, IL

Major: Radio, Television, and Film

Attended two years