

# Bob Roberts

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## Experience

### Full Stack Web Developer

#### My Online Marketplace, June 2023 - Present

Design and develop an online marketplace for customer order processing and merchant product maintenance leveraging HTML, CSS, JavaScript, Bootstrap, Java, SpringBoot, PostgreSQL, with automated build, test, and deployment using Terraform and Jenkins deployed to AWS.

#### Front End Development

Developed website pages per UX design for an online marketplace including customer product browse and search, product view, shopping cart, payment, shipment, order tracking, and merchant product and order management pages, leveraging HTML, CSS, vanilla JavaScript, and Bootstrap. Used Fetch API to maintain product and order information via REST API that interfaces to customer and merchant APIs. Behavioral driven development (BDD) used to create front end unit test using Jasmine.

#### Backend Development

Developed RESTful web APIs to manage customer orders and maintain merchant products for an online marketplace, leveraging Java, SpringBoot, connected to a PostgreSQL database using JPA to implement data access objects in using JDBC and SQL to create, read, update, and delete database records. Use Liquibase for database schema maintenance. Test-driven development (TDD) used to create backend unit tests using JUnit and Mockito.

#### Database Design

Designed and developed database schemas for customer orders and merchant products using Figma to breakdown object models and database schema from user requirements, normalized to third normal form then optimized as needed for performance.

## UX Design

Designed using Figma to create the user experience for an online Marketplace.

### For Customers

Designed shopping experience for customers to loosely follow the design of [amazon.com](https://www.amazon.com), including product browse, product view, product search including facets, shopping cart, order history, shipping addresses, payment methods, checkout, shipment tracking, and user profile.

### For Merchants

Designed merchant experience including product maintenance, order processing, order management, inventory management, shipment tracking, and user profile.

## DevOps

Automate build, test and deploy of an online marketplace to AWS utilizing Jenkins for CI/CD and terraform for Infrastructure as Code deployment. The front end for customer and merchant assets are deployed to S3 buckets serving as websites fronted by a CloudFront CDN using TLS v1.3 certificates accessing customer and merchant docker services deployed to Fargate to custom domains routed through Route 53.

## Development Methodology

Leverage Jira and Confluence to collaborate with team members and product owners to determine requirements, do work breakdown, acceptance criteria, and estimation (using t-shirt sizes) to create Jira tickets for the team backlog, using a SCRUM methodology with 2-week sprints.

## Education

### The Complete Full Stack Web Developer Course

June 2023 - September 2023

Completed course work includes front end development using HTML, CSS, JavaScript, and Bootstrap, back end development using Java, SpringBoot, dependency injection, JDBC, JPA, SQL, PostgreSQL, Docker, Terraform, and Jenkins CI/CD.