Dorn Holland

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Experience

Software Engineer II - Somalogic   Aug 2021 - Current
- **Designed and implemented an automated reporting service** that aggregates financial and bioinformatics data, generates compliance reports for legal requirements, and uploads and processes these reports to the company's documentation service, removing the need for manual processing. (Spring Boot, Java)
- **Developed a product generation system** that intakes processed bioinformatics data and automatically generates detailed health reports which are distributed to thousands of users. This system is a pivotal component to the organization's revenue stream. (Spring Boot, Java, VueJS)
- **Unified security protocols across 20+ repositories** by standardizing various security patterns and technologies under Auth0, ensuring consistent adherence to OAuth2. **Redesigned gateway workflows** to enhance security integration and improve scalability of the gateways.
- **Developed a comprehensive protein target menu application** with over 11,000 entries, **featuring detailed views**, **advanced filtering**, and **multi-category search capabilities**. **Implemented shopping cart-like panels** allowing users to create orders, streamlining the purchasing process. (Spring Boot, VueJS)
- **Developed an application workflow to ingest, store, and aggregate control data** from up to 100 research institutions worldwide. **Created visualization features to monitor laboratory health and performance over time** through various charts and graphs, which were crucial for maintaining the integrity of customer studies. **Implemented an API to provide aggregated data to R&D developers** for further analysis and development. (Django, Python, Vuejs)
- **Improved performance of bulk study process by 200%** by modularizing it into a separate microservice that communicates asynchronously via AMQP. This refactor enabled **horizontal scaling of the app,** resulting in a 200% increase in performance for the previously bottlenecked process. (RabbitMQ, Kubernetes)
- **Developed test automation software** to replace manual user acceptance testing protocols required for deployment. **Implemented browser-based tests** that simulate user actions, significantly accelerating the deployment process. (Cypress, Playwright)
- **Achieved over 90% unit test coverage** for all applications, ensuring high code quality and reliability through rigorous testing practices.

Staff Accountant - Stratus Building Solutions   Jun 2020 - Sep 2020
- Utilized excel macros to automate analysis and formatting of monthly reports, reducing time commitment for monthly tasks from an hour to minutes, consequently increasing department efficiency

Teaching Assistant - Numerical Analysis - University of Colorado Boulder   Jan 2020 - May 2020
- Held office hours and tutoring in Interpolation, Approximation, and other topics of mathematical algorithmic analysis

Skills and Technologies

Spring Boot, Java, Vue.js, React.js, JavaScript, Django, Flask, Python, PostgreSQL, Docker, Kubernetes, RabbitMQ, Amazon SQS, Vim, Auth0, S3, Amazon EFS, Git, Figma, **Cypress, Playwright**

Education

University of Colorado Boulder - *B.S. in engineering, Applied Mathematics*   Aug 2016 - May 2020
Relevant Coursework - Engineering Computing, Data Science, Bayesian/Frequentist Statistical Analysis, Numerical Analysis

Portfolio

Kanban-style organizational app for user-centric software development   Live Site | Github
JavaScript, React / Redux, Express.js, HTML5, CSS3, PostGreSQL, Dokku/DigitalOcean
- **Developed an organizational app** with full CRUD functionality for managing stories and projects, incorporating **drag-and-drop capabilities** to enhance user experience and streamline task management.

GoodReads clone for comic books   Live Site | Github
JavaScript, HTML5, CSS3, Dokku/DigitalOcean
- **Developed an application** for viewing comic book metadata and **adding comments and reviews**, enabling users to engage with and evaluate different comic books.