Joshua Cheung

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Skills and Technologies

Languages: Java, Ruby, Javascript, C/C++, Python, bash, HTML, CSS
Frameworks: **(Frontend)** React, **(Backend)** Ruby on Rails, Node, Express, Apache Tomcat, **(Databases)** Firebase, MySQL, SQLite
Cloud Platforms: Amazon Web Services, Google Cloud Platform
Tools: Docker, CertBot, Nginx, WebSockets

Professional Experience

Software Engineer at Babylist | Oakland, CA   September 2021 – January 2023

- Optimized the order routing system by introducing a comprehensive warehouse scoring mechanism to assess multiple factors such as ready-to-ship items, and consolidation, achieving a cost savings of $1.1M and improving the warehouse selection for order fulfillment.
- Expanded the product-matching service by integrating a third-party retailer (Nordstrom), providing price comparisons to customers, leading to an increase of $1M in revenue. Designed job pipeline to extract 1.3M products from third-party retailer servers into the internal database, seamlessly matching products.
- Enhanced the scraper tool by implementing Schema.org and extracting essential product information such as name, price, images, and metadata, resulting in a 25% increase in reliability.
- Designed and implemented an email update system, leveraging Shopify webhooks and Iterable, to enhance control over communication for health products, and retail items, and provide real-time transparency in order status and tracking for customers.
- Improved the internal Order Details page with more verbose fulfillment statuses and intuitive groupings to enhance user experience when reading and managing order information for the Operations team.
- Built a data pipeline to update and standardize product dimensions resulting in more accurate data for shipping size and cost projections.

DevOps Engineer at Birst Inc. | San Francisco, CA   October 2019 – August 2021

- Initiated and executed a cost-savings plan to optimize resources by removing unused EC2 instances and images, and consolidating storage drives, resulting in a reduction of $3000 in monthly expenses.
- Maintained and automated the deployment pipeline to QA stacks with Jenkins and Chef to ensure reliability and repeatability for daily deployments.
- Managed and configured AWS EC2 images and instances to create production-like environments for engineers to test and develop new features.
- Administered secure access controls, authorizing selected developers to utilize internal and external frameworks (AWS, JIRA, BIRST, Github, Servers, Email, etc.) while maintaining data security.
- Participated in an on-call rotation to monitor and resolve all QA infrastructure issues to ensure stable environments for deployment and testing, and minimize downtime to produce more feature builds daily.

Software Engineer at Cisco Systems | Milpitas, CA   July 2019 – October 2019

- Utilized Jenkins and JUnit to rigorously test Webex functionality and features, ensuring the high-quality of the application.
- Revitalized the automation library in a 3-week project for an offshore team to enhance application reliability through automation testing.
- Worked on customized scripts to install specific versions of Webex onto Windows VMs, facilitating thorough compatibility testing.

Software Engineer Intern at Cisco Systems | Milpitas, CA   October 2018 – December 2018

- Developed shell scripts to automate device registration to reduce manual interaction by 10 minutes/device.
- Wrote Ansible playbooks to automate the installation of OpenStack to configure computer networks for Webex use and testing.
- Integrated JUnit for Odomantus Client endpoints to dial into Webex calls to test different application functionalities and features.

Independent Projects

Qvinyl: YouTube Watch Party Web Application   April 2020 – Present

Full-Stack: Ruby on Rails, React, Redux, Material-UI, Firestore, GCP, CloudSQL, Docker, Nginx, Express, WebSockets, RestAPI, CertBot

- Designed and developed a robust backend infrastructure using FireStore and CloudSQL to efficiently store and manage user information, content queues, and virtual room data.
- Integrated Socket.io, Node, and Rails to enable efficient and real-time data transfer between the servers, databases, and clients, significantly enhancing the responsiveness and interactivity of the application.
- Streamlined the start-up process by leveraging Docker to deploy containerized services on GCP VM instances, optimizing resource utilization and efficiency.
- Used React framework, Material-UI, and CSS to create a dynamic, user-friendly, and intuitive single-page application
- Fortified web application by implementing an SSL certificate security through the configuration of CertBot, thus ensuring data integrity between client and servers.
- Coordinated and managed staging and production environments to facilitate comprehensive feature testing before release, guaranteeing a smooth and exceptional user experience.

Education

University of California, Santa Cruz. Baskin School of Engineering   September 2015 – March 2019

Bachelor of Science in Computer Science