

DENNIS CHEN

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BACKEND SOFTWARE ENGINEER

Results-driven and resourceful technical professional with industry experience in software engineering and mobile development. Demonstrated success in cloud infrastructure, backend development, and driving projects that enhance reliability and scalability. Adept in multiple programming languages and frameworks and proficient in quality assurance and continuous improvement. Clear communicator who builds working partnerships with peers, clients, and stakeholders.

TECHNICAL SKILLS

Ruby | Ruby on Rails | NodeJS | Java | Spring Boot | JavaScript | HTML | CSS | React | Android | MySQL | PostgreSQL | MongoDB | AWS | Jenkins | Git | Docker | Apigee | authz | OpenAPI | REST | Redis | Kubernetes | Splunk

PROFESSIONAL EXPERIENCE

HP Inc. | San Diego, CA

July 2013 – August 2024

SENIOR SOFTWARE ENGINEER, November 2016 – August 2024

Instant Ink, an automatic ink replenishment service that automatically charges subscribers based on pages printed.

- Architected and developed scalable web applications using Ruby on Rails, leveraging agile methodologies.
- Designed and implemented backend APIs using Java Spring Boot and MongoDB to track print data, enable date-range queries for third-party clients, and support the launch of HP All-in.
- Implemented a distributed priority system for SQS queue worker nodes across multiple machines, reducing high-priority task processing time by 90% and enhancing the overall system responsiveness.
- Migrated rails web servers from Unicorn to Puma, massively improving server response times to external requests.
- Designed and built a flexible data validation job to identify and correct data inconsistencies between Instant Ink and other internal systems, with the capability to easily incorporate additional validations.
- Onboarded and mentored new engineering hires, educating them on the team's technology stacks and facilitating their integration to agile development and best practices.

HP Sprocket, a portable printer and mobile applications for printing photos on the go.

- Played a key role in the launch of the highly rated Android Java app for HP's Sprocket portable photo printer.
- Implemented core features including wireless printing, photo editing tools, and social sharing integration to enhance user experience and drive product adoption.
- Created a library that utilizes BTC and BLE to communicate with HP's Sprocket devices, allowing extensibility and easy integration for future products and commands.

SYSTEM SOFTWARE ENGINEER, July 2014 – November 2016

Secure Print, a web service that allows 3rd parties to send print bytecode directly to printers effortlessly.

- Developed a versatile NodeJS web service tailored for rapid prototyping and streamlined testing of deep linking functionality within iOS and Android applications.
- Provided support and guidance to empower third-party developers leveraging the Secure Print platform

Social Media Snapshots, an Android mobile app for printing photos directly from social media.

- Spearheaded development and successful launch of an Android app that seamlessly integrated with popular social media platforms such as Instagram and Facebook.
- Served as a primary contributor in the development of an open-source print library designed to streamline the integration of print functionality into other Android mobile applications.

SOFTWARE ENGINEER INTERN, July 2013 – July 2014

TwoSmiles by HP, a Ruby on Rails web app for creating and printing personalized greeting and gift cards at home.

- Created front page configuration tools for dynamic page modifications, reducing QA effort and enhancing flexibility.
- Designed and prototyped a NodeJS addon utilizing PangoCairo as a lightweight alternative to ImageMagick for rendering text on gift cards, resulting in a 3x improvement in rendering speed.

EDUCATION

Bachelor of Science (B.S.) in Computer Science
University of California, San Diego | San Diego, CA