



EDUCATION

Master of Science in Software Engineering

University of California - Irvine

September 2018 - March 2020

Coursework: Software Architecture, Machine Learning, Data Structures, Middleware in Distributed Systems

Bachelor of Technology in Electronics & Communication

Model Engineering College (CUSAT), Cochin, India

April 2010 - May 2014

EXPERIENCE

Software Engineering Intern

Kareo - Irvine, California

June 2019 – September 2019

- Accelerated the release of a beta version of customizable consent forms, an additional feature of the flagship patient engagement product.
- Proposed and implemented changes to the API logging that reduced the SLA of production issues.
- Identified and eliminated vulnerabilities to XSS injection in the application to increase its security.

Senior Application Developer

ADP - Hyderabad, India

October 2014 – August 2018

- Engineered dynamic and responsive user-facing React web applications and connected them to an Oracle database using REST web services built on Microservice architecture.
- Automated repetitive tasks by designing various tools which improved the productivity of the support team.
- Optimized APIs by tuning the design, bringing down the average request time from 4s to 1.3s. [Star of the month, Dec 17]
- SPOC of the Talent module; diagnosed and resolved client issues, conducted multiple remote and face-to-face knowledge transfer sessions for different teams. [Star of the month, Apr 17]

PROJECTS

Design Studio Tool | UCI | MongoDB, Express.js, React, Redux, Node.js, AWS S3, EC2

A robust design tool that reduces the cognitive load for users by adding a temporal aspect to the design artifacts, currently used by undergraduate students and professors at UCI.

- Led a team of fellow Masters and PhD students to build a web-based digital design studio application that aids the process of software design.
- Conceptualised the end-to-end design of the product by visualising user journey maps based on interviews.
- Designed database models, architected backend APIs and modularized front-end components.
- Configured AWS S3 buckets for storage of design artefacts, and EC2 instances to host the web application.

ICS Search Engine | UCI | Python, Java, JDBC, JavaScript, MySQL

A search engine built on the corpus created by crawling all URLs in the Informatics web domain of UCI.

- Built a web crawler in Python that creates a collection of URLs in the ics.uci.edu domain by considering crawling challenges like duplicate detection, data noise and performance.
- Developed a Java application to create an inverted index using TF-IDF vectorization.
- Created a UI application that queries the database for indexes and displays the retrieved results.

Compensation Management Module | ADP | Java, Spring, Hibernate, TypeScript, React, Redux, Docker

A re-engineered module responsible for calculating Merit increments, Bonus and Equity based on performance and distributing it via paychecks.

- Contributed to the new framework that followed Microservice Architecture.
- Performed normalized DB model design, mapped and persisted DB entities, and constructed the initial packages that strictly followed the architectural patterns.
- Mentored team-mates, reviewed pull requests and handled the daily deployment of Docker containers.

WFN Import Utility | ADP | Java, Shell Scripting, JSP, JSch library

An app that aided the import of the client's production data into local environments for testing and certification of scripts and code fixes.

- Facilitated SSH connection using an open-source library and ran shell scripts based on inputs from JSP page.
- Reduced the resolution time of production issues by 30%.

SKILLS

Programming/Scripting Languages: Java, JavaScript, Python, Bash, PL/SQL, TypeScript

Frameworks/Tools/Software: Spring, Hibernate, ReactJS, Redux, Express.js, NodeJS, Jenkins, Git, Mercurial, Linux, Apache Tomcat, IBM WAS, Angular, Docker, Jira, Rally

Languages: English, Hindi, Malayalam, French, Gujarati