

EDUCATION

- **Stevens Institute of Technology** Hoboken, NJ
Master of Science in Computer Science Aug. 2018 - May. 2020
- **Northeastern University** Shenyang, China
Bachelor of Software Engineering Aug. 2010 - Jun. 2014

PROGRAMMING SKILLS

- **Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML, CSS
- **Tools/Framework:** React, Angular, NodeJS, jQuery, Spring, Hibernate, Oracle PL/SQL, MongoDB, AWS, JSP Servlet

EXPERIENCE

- **Vibrant America LLC** San Jose, CA
Senior Software Engineer - Full time Nov. 2020 - Now
 - Designed and implemented a full-stack E-commerce platform for diagnostic services, serving 1,000+ healthcare providers and their patients. Built the front end with Angular (TypeScript, RxJS) and integrated it with backend APIs, enabling real-time test ordering and result tracking.
 - Developed and deployed backend services using microservices architecture (Node.js, Python, Docker, Kubernetes, RESTful APIs), improving system scalability, interoperability, and achieving a 25% increase in data throughput.
 - Engineered advanced UI/UX components with Angular, NgRx, and WebSockets to support real-time updates, boosting provider adoption and increasing traffic by 20%.
 - Implemented CI/CD pipelines (GitLab, Jenkins, Docker) and applied secure deployment practices to accelerate feature releases while maintaining compliance with healthcare data standards (HIPAA).
 - Collaborated with laboratory data teams to integrate machine learning models for result interpretation and anomaly detection, enhancing diagnostic accuracy and unlocking new data-driven features.
- **Mercury System, Inc.** Princeton, NJ
Software Engineer - Intern May. 2020 - Dec. 2020
 - Implemented a Dental Clinical web application from scratch, engaged in all the stages of Software Development Life Cycle. Implemented 'Calendar', 'Orders' and 'Invoices' modules to help finish diagnosis and treatment process.
 - Developed Back-end business or system interfaces for front-end or client-side by using Java, based on Servlet/JSP, frameworks such as Spring, and PostgreSQL database.
 - Utilized React Redux to facilitate data communication between different components and to maintain the state of the entire application. Created a native calendar view and wrapped it with JavaScript to build a high-performance React-Native component.
- **Huoban Intelligence Science and Technology Co., Ltd.** Beijing, China
Product Manager - Full time Mar. 2016 - Sep. 2017
 - Designed and implemented a SaaS platform that is used by 2 million users. It is a data visualization platform serving business operations and providing overall solutions for enterprise-wide management.
 - Implemented an automated workflow based on IFTTT workflow engine and functional programming to process data. Designed online collaboration tools powered by Cloud and Earthwork Project Platform.
 - Collaborated with both Marketing Department and Technology Department to redesign business process automation with the BPMN engine, and processed big user data by implementing MPP.
- **58.Com Inc** Beijing, China
Product Manager - Full time May. 2014 - Mar. 2016
 - Performed interactive and category design on 58 mobile app, conducted user surveys, depicted user portraits and optimized refund and feedback processes.
 - Posted and designed detail pages for the app and improved user experience, increasing user stickiness by 25%.
 - Monitored DAU, analyzed the causes of fluctuation of DAU, and proposed cases for DAU promotion.

PROJECTS

- **Dental Clinic System:** Developed a web application for dental clinic to manage patients and employees' information and optimize the medical treatment process in dentist clinic, using HTML5, CSS3, Bootstrap, Material-UI, React, Bar Charts for front-end; using Spring Boot, Spring Security, Java mailing API for back-end.
- **LocateMe:** Developed a location-based web application that allowed to login, create or join group, chat with group, and locate group members in real-time, using WebSocket, Google Map Location Service and Redis.
- **Search Engine:** Developed a search engine which can quickly find related pages by giving key words based on a compressed Trie of the inverted index and return pages according to their tf-idf and PageRank scores, using Python.
- **Machine Learning Models:** Implemented different classification methods without calling sklearn, including Logistic Regression, Decision Tree, etc. Using Python.

TEACHING EXPERIENCE

- **Machine Learning** Hoboken, NJ
Teaching Assistant *Aug. 2019 - May. 2020*
 - Offered assistance to students to guide them on course context.
 - Helped collected questions from students and adjusted class textbook. Created solutions to problem sets and exams, grading problem sets and exams.
- **Computer Vision** Hoboken, NJ
Teaching Assistant *Jan. 2020 - May. 2020*
 - Assisted in the preparation of lecture materials.
 - Advised students on projects and presentations.