

# Edward Huang

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## EXPERIENCE

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### Software Engineer, Macy's Tech

Aug 2018 - Present

- Re-designed and refactored Macy's React UI framework architecture, by decoupling CSS style library from Macy's CLI to Macy's React library repository and increasing code coverage by 40% to create a seamless user experience and cohesive look and feel for developers working on React applications.
- Created and designed RESTful API endpoints using Spring Boot, a Java-based framework, to escalate Magecart Attack Detection and assist the digital support team.
- Designed and developed security reporting dashboards using React to support Zed Attack Proxy (ZAP) Test, Magecart Attack Detection, and Dependency Check to help detect vulnerabilities across Macy's Enterprise.
- Re-designed and implemented MySQL database using Java Database Connectivity (JDBC) API with Spring Boot framework to provide scalable solutions to store reported vulnerabilities and their dependencies across all projects within the Macy's Enterprise.
- Initiated test-driven development process to the Platform UI team to be incorporated in monthly tech talks.

### Software Engineer Intern, Macy's Tech

Jun 2017 - Aug 2017

- Analyzed the results of external library's upgrade and webpack integration for the client architecture, conducted end-to-end testing, and added CommonChunk plugins in webpack to separate and reduce duplication on code chunks and vendor caching to improve loading time by 1000 milliseconds.
- Implemented a custom Lint across the mobile web server architecture to analyze the source code style, structure, and detect and proactively alert on potential programming errors, syntax errors, and bugs.
- Modeled UI/UX wireframes using Sketch for Macy's virtual queue system to enhance user-centric design.
- Designed database for Macy's internal-facing website for customer Virtual Queue feature using Laravel framework.

### Software Engineer Intern, IBM

Apr 2017 - Jun 2017

- Modernized and implemented custom Eclipse text editor plugins using Java, transforming from a virtual machine to a modern text editor in Pluto Testing framework for IBM Z-Systems Mainframe.
- Developed and re-designed an employee resource application from a multi-page view to a single-page design, and decreased 30% load time, using Angular, Cloudant DB, and deployed on IBM Bluemix cloud platform.

### Software Developer, Mesh.edu

Sep 2016 - Mar 2017

- Designed and implemented a user interface for an adaptive, dynamic learning and education application with a real-time user feed and introduced features such as infinite scrolling using Django framework.
- Implemented service workers, caching service, to improve users' offline performance and decreased application loading time by over 500 milliseconds.

### Software Developer, Chen NanoEngineering Lab for Bioprinting & Tissue Engineering

Jun 2016 - Dec 2016

- Developed a 3D printer web application using React to generate cell scaffolds for BioTissue Engineering.
- Implemented web sockets to connect web application to hardware for instant feedback on user data input.
- Modeled UX wireframes for 3D printer web application with Google Material Design and enhanced UX/UI.

## PROJECTS

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### Inventory Hub

Apr 2018

- Implemented a desktop application for a store inventory management system for a retail company in Indonesia. Utilized technologies Node.js, Sequelize ORM, JSON Web Token, React, and Electron.

### Massive Open Online Courses (MOOCs) Search

Mar 2018

- Developed a full-text search engine application for online courses, allowing user to search for Udemy, Udacity, and Iversity courses. Utilized technologies Node.js, Elasticsearch, Vue, and Docker.

## SKILLS

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**Programming Languages:** Java, JavaScript, HTML, CSS, SQL, Python

**Libraries and Tools:** React, Redux, Node.js, Express, NPM, Spring Boot

**Other Skills:** Agile Software Development, MVC Architecture, Responsive Web Design, Continuous Integration, Microservice Architecture

## EDUCATION

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**University of California, San Diego (UCSD)**

Aug 2014 - Dec 2017

B.S. Computer Science