

Eric H. Jiang

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SUMMARY

Highly motivated **M.S. graduate in Computer Science** experienced in **full-stack web development** and machine learning, seeking a full-time position as a **software engineer (SDE) or web developer**.

- ❑ Programming Language: Python, JavaScript, Java, C++, HTML, CSS, SQL, Haskell, Racket, MATLAB
- ❑ Database & Deployment: MySQL, MongoDB, DynamoDB, Postman, AWS, Heroku, Netlify, Docker, Kubernetes, GIT
- ❑ Full-Stack Development: React stack with Hook & Redux & Router, Node.js, Express, Spring Boot, Flask, WordPress

PROJECTS

Developer Social Network (MERN Full-stack development)

- Built and deployed a full stack social network application using React, Redux, React Hooks, Node.js, Express, MongoDB, Postman, Json Web Token, Heroku *Links: <https://polar-ridge-00162.herokuapp.com>*
- Created UI components using React and integrated them Redux for state management, routed pages with Router
- Built RESTful APIs with Node Express interacting with MongoDB via mongoose schema and tested with Postman
- Encrypted user password with bcryptjs and applied JWT as middleware to authenticate access protected routes
- Created post build script and deployed to Heroku and enabled automatic deploys with Github
- **Technology Used:** React stack, Node.js, Express, Axios, Mongoose, JWT, MongoDB, Heroku

eCommerce Platform (MERN Full-stack development)

- Built a real-world custom eCommerce platform application with full featured shopping cart with PayPal & credit/debit checkout process, product rating & review system, product search, top products carousel, product pagination & more
- Implemented Admin mode to manage customers, user profile with orders, order details page, delivered option
- **Technology Used:** React stack, Node.js, Express, Axios, Mongoose, JWT, MongoDB, Paypal API, Heroku

Course Scheduling System (React and Spring Full-stack development)

- Implemented React stack workflow to build a vibrant UI friendly course registration website
- Implemented React Hook useState & useEffect to handle onChange events such as fetching data from back-end
- Built RESTful web APIs with Spring Boot generated by JHipster, implemented Bean and developed strong understanding of Inversion of Control and Dependency Injection
- Created and designed a relational database with MySQL and implemented Hibernate for SQL calls
- Deployed front-end to AWS S3, back-end to AWS EKS, and database to AWS RDS
- **Technology Used:** React stack, Axios, Spring, MySQL, AWS

Community Pet Sitter Program (Front-end development)

- Designed prototypes and developed a responsive web application that provides neighborhood pet sitter finder service
- Built features included user registration, user login, user profile page, service request form, time-slot registration, Google Map API, etc.
- **Technology Used:** HTML/CSS, Bootstrap, JavaScript, Python, Flask, MySQL

Images Styles Transfer (Machine learning)

- Applied Neural Style Transfer effect from multiple style images on different segmented objects in a content image
- Implemented pre-trained CNN network and segmentation algorithm, and effectively configured local GPU to boost the computing capacity
- **Technology used:** Python (NumPy, TensorFlow), Neural Network (CNN), Jupyter Notebook

WORK EXPERIENCES

Web Developer at V. I. Global Partners, Seattle, WA

Fed 2021 — Present

- Built, tested, and deployed a new WordPress website with customized contents, features, and functionality using Elementor and hardcoded advanced CSS; debugged using DevTools
- Collaborated with UI/UX team to implement design changes and to achieve cross-browser compatible and responsive
- Developed serverless Client Management system with React, Node, and DynamoDB in AWS
- Managed projects in Agile environment performing Scrum and Kanban using notion.so and Google Workspace

Project Engineer at Javan Engineering, Fort Washington, PA

Aug 2016 — Aug 2018

- Implemented Agile (Kanban) project cycle for engineering design and safety analysis for pharmaceutical and process plants; managed hundreds of safety devices and routinely interacted with clients onsite
- Automated and integrated engineering calculations and developed high efficiency project management process using MATLAB, Excel, SharePoint, and other process engineering software

Mechanical Engineer at Wood Group, Philadelphia, PA

Nov 2013 — Jul 2016

- Programmed and automated complex engineering calculations using Excel and AutoPipe to evaluate and design nuclear power plants safety systems; traveled to sites to inspect physical condition of piping system

EDUCATION

Drexel University, Philadelphia, PA

Sep 2018 — Jun 2020

M.S. in Computer Science (GPA: 3.8)

- ❑ Related Coursework: Front-end development, Data Structure and Algorithms, Machine Learning, Computer Vision, Test Driven Development, Computer Networks, Software Engineering Process, High Performance Computing, etc.

Pennsylvania State University, State College, PA

Aug 2007 — May 2012

B.S. in Mechanical Engineering & B.S. in Nuclear Engineering (Dual Degree)