Eric 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 **software engineer (SDE)** starting any time.

- Programming Language: Python, JavaScript, Java, C++, HTML/CSS, SQL, Haskell, Racket, MATLAB
- Cloud and Database: MySQL, MongoDB, AWS, Docker, Kubernetes, GIT
- Full-Stack Frameworks: React, Redux, React Router, Node.js, Axios, Spring, Material UI, Flask, Express

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)

PROJECTS

Course Scheduling System (Full-stack development)

- Implemented React stack workflow to build a vibrant UI friendly and high-performance Single Page Applications
- Implemented redux to resolve the application's global state management, especially for user login status.
- Built Restful web API with Spring, Spring Boot, and testing APIs using Postman
- Involved in creating and designing a database, and connect the database with Hibernate (ORM)
- Technology Used: React stack, Node.js, Axios, Spring, Material UI, MySQL, AWS for cloud deployment

Community Pet Sitter Program (Full-stack development)

- Designed prototypes and developed a fully functional web application that serves as a pet sitter finder in designated zone by zip-code
- Built features included user registration, referral confirmation, pet profile creation, service request form, time-slot registration, Google Map API, etc.
- Technology Used: Python, Flask, Bootstrap, HTML/CSS, JavaScript, MySQL

Bike Rental Website (Full-stack development)

- Built a demo 'Drexel Bike' website that allows students to view inventory of a variety of bikes and reserve bikes online
- Implemented features included bike inventory display, bike rental renewal, bike-rider registration etc.
- Technology Used: HTML/CSS, 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

Chat Room Protocol Design (Computer Networks)

- Designed and implemented a stateful and concurrent chat room protocol in the application layer over TCP/IP that the server must be able to handle multiple clients
- Implemented the chat room server to be asynchronous
- Technology Used: Python (socket, json, threading), Socket Programming

WORK EXPERIENCES

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 SharePoint, MATLAB, and multiple process engineering software

Mechanical Engineer at Wood Group, Philadelphia, PA — Nov 2013 — Jul 2016

- Programmed and automated complex engineering calculations to evaluate whether the nuclear power plants can achieve and maintain safe shutdown in catastrophic events (Post-Fukushima Safety Enhancements)

Product Engineer at Lloyd Industries Inc., Montgomeryville, PA — Jul 2012 — Oct 2013

- Developed a series of 3-D animations to demonstrate installation procedures for air ventilation products using AutoCAD, Inventor, and SolidWorks