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# Jia Hou

## Software Engineer

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### EXPERIENCE

#### Lightpath

Full Stack Developer Intern

Remote/Bethpage, NY

July 2022 — Current

- Develop and maintain a customer portal for 6000+ users to create support tickets, view and pay invoices, and examine electronic billing formats using React.js, Java Spring Boot, and PostgreSQL
- Collaborate with business analysts, project stakeholders, and project managers to identify products and technical requirements to update legacy Liferay JSP to a modern tech stack in an Agile work environment
- Leverage React's components and hooks to manage application state and queries to create an efficient, performant and scalable front end application that will improve user experience and performance by 16%

#### University at Buffalo Nanosatellite Laboratory

Software Engineer

Buffalo, NY

Jan 2022 — July 2022

- Researched methods and APIs to incorporate software for a camera in the Glint Analyzing Data Observation Satellite (GLADOS) using core Flight System Platform (cFS) to gather light data on space debris for NASA
- Updated data for Space Situational Awareness (SSA) through the use of the glint data to help protect important space assets
- Frequented short cycle labs (SCL) and meetings to learn PCB design, software development, and hardware assembly to update documentation to expedite on-boarding process times for new group members by 33%

### EDUCATION

University at Buffalo, The State University of New York  
Bachelor of Arts in Computer Science, Minor in Psychology

Buffalo, NY

May 2022

### TECHNICAL SKILLS

#### Software

Git, Emacs, Xcode, UNIX/Linux, Figma, Vim, Eclipse

#### Programming Languages

Python, JavaScript, C, C++, Java

#### Frameworks

React.js, Node.js, Django, MySQL, Flask, Spring, PostgreSQL

#### Coursework

Data Structures, Web Applications, Computer Systems Administration, Software Quality in Practice, Applied Human Computer Interaction, Software Engineering

### PROJECTS

#### Study Seeker (React.js, Swagger API, CSS)

Jan 2022 — May 2022

- Programmed a web application to help students connect and create study sessions through the use of a social media platform to help students build communities, increase productivity and nurture growth and success using React.js and Swagger API
- Produced and presented work that was assigned by a scrum master to ensure quality software using mobile-first development to fulfill weekly task deadlines using user stories and acceptance tests
- Incorporated ZenHub to create and assign tasks while ensuring the tasks belong in the proper workspace pipelines and Figma to create wireframe and UI/UX design

#### Mosaic Maker (React.js, Flask, MySQL, CSS)

Jan 2022 — May 2022

- Deployed a full-stack web application on an Apache server to create picture mosaic art using images uploaded by the user, keywords entered by user or by random in a collaborative setting using GitHub for version control
- Led group in completion of weekly tasks through the use of a kanban board and bi-weekly sprint demos which led to a 2nd place finish in UB CSE Demo Day among 60+ other graduate and undergraduate groups
- Structured and linked front and back end development by creating a Flask RESTful API to obtain information from React.js to be stored in MySQL databases, tables, and schemas

#### Bullboard (Python, JavaScript, MongoDB, HTML, CSS)

Sep 2021 — Dec 2021

- Built a web application to help students in the university find friends and roommates by creating a live map web socket map
- Achieved implementation of a live map interaction using web sockets for concurrent users and led debugging efforts which resulted in a 20% improvement in run-time performance

#### Buffalo Parking Data (Python, JavaScript, HTML, Bottle, Plotly)

Feb 2020 — Apr 2020

- Created a site that maps tows and data onto a scatter plot, pie chart, and line graph by parsing city parking data using csv files
- Charted data sets on graphs and plots to show "Tows by Day of the Month", "Tows by City Districts", and "# of Tows by Month and Description" using the most relevant and important data points