

Jay Cheng

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EXPERIENCE

Software Engineer (via TEKsystems) Full Stack Developer Intern

Jan 2023 – Present
Jul 2022 – Jan 2023

Lightpath

Bethpage, NY

- Implement and enhance a customer portal serving 6000+ users for support ticket creation, invoices, billing, and metrics reporting using React, Spring Boot, and PostgreSQL resulting in a 25% increase in traffic
- Utilize React components and hooks to manage application states and queries contributing to the development of an efficient, performant, and scalable front-end application leading to a 40%+ boost in performance
- Collaborate with business analysts, project stakeholders, and project managers to identify products and technical requirements to upgrade Liferay JSP to a modern tech stack using Agile methodology

Software Engineer

Jan 2022 – Jul 2022

University at Buffalo Nanosatellite Laboratory

Buffalo, NY

- 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) using cFS to develop mission applications, enable collaboration across organizations, lower deployment time, and reduce project schedule
- Frequented short cycle labs and meetings to acquire knowledge in PCB design, software development, hardware assembly to contribute to the enhancement of documentation

EDUCATION

Georgia Institute of Technology

Jan 2024 – Present

Master of Science (MS) in Computer Science

University at Buffalo, The State University of New York

Aug. 2018 – May 2022

Bachelor of Arts (BA) in Computer Science, Minor in Psychology

PROJECTS

Mosaic Maker | *Python, React, Flask, MySQL, CSS*

- Deployed a full-stack web application to create picture mosaic art using images/keywords entered by the user or randomly using Flask backend, and React frontend
- Led group in completion of weekly tasks through the use of user stories and bi-weekly sprint demos which led to a 2nd place finish in UB CSE Demo Day among 60+ other graduate and undergraduate groups
- Created and maintained CI/CD pipelines for automated code deployment using GitHub, Gunicorn, and Nginx on an Apache server that expedited deployment by 80%

Study Seeker | *React, Swagger REST API*

- Programmed a web application social media platform to help students create study groups, make friends, build communities, and increase productivity using React and custom Swagger API
- Incorporated ZenHub to create and assign tasks as a kanban board optimizing project organization and workflow efficiency using proper agile pipelines which produced a 400% increase in overall task creations

Bullboard | *Python, JavaScript, MongoDB, HTML, CSS*

- Built a full-stack web application using Python, JavaScript, and MongoDB in collaboration with 4 other developers to help students find friends and roommates
- Achieved implementation of a live map interaction using web sockets for concurrent users and led debugging efforts which brought on a 25% improvement in run-time performance

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, Django, Spring Boot, Azure

Developer Tools: Git, Emacs, Visual Studio Code, Unix/Linux, Figma, Vim, Balsamiq, Eclipse, VirtualBox