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Jay Cheng

Software Engineer

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EXPERIENCE

Lightpath

Software Engineer (via TEKsystems)
Full Stack Developer Intern

Bethpage, NY

Jan 2023 — Current
Jul 2022 — Jan 2023

- Implement and enhance a customer portal serving 6000+ users for support ticket creation, invoices, billing, and metrics reporting using React.js, 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 a highly efficient, performant, and scalable front-end application leading to a 40%+ boost in performance
- Collaborated 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

University at Buffalo Nanosatellite Laboratory

Software Engineer

Buffalo, NY

Jan 2022 — Jul 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) using cFS to develop mission applications, enable collaboration across organizations, lower deployment time, reduce project schedule and cost uncertainty
- Frequented short cycle labs and meetings to acquire knowledge in PCB design, software development, and hardware assembly, contributing to the enhancement of documentation

EDUCATION

Georgia Institute of Technology

Master of Science (MS) in Computer Science, Specialization in Machine Learning

December 2026

University at Buffalo, The State University of New York

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

May 2022

PROJECTS

Mosaic Maker (React.js, 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.js 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, Unicorn, and Nginx on an Apache server that expedited deployment by 80%

Study Seeker (React.js, REST API, CSS)

- Programmed a web application social media platform to help students create study groups, make friends, build communities, increase productivity, and nurture growth using React.js and custom Swagger API
- Incorporated ZenHub to create and assign tasks as a kanban board optimizing project organization and workflow efficiency while 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

SKILLS

Software

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

Technologies

Python, JavaScript, C, C++, Java, React.js, Node.js, Django, MySQL, Flask, Spring Boot, PostgreSQL

Coursework

Data Structures, Computer Systems Administration, Software Quality in Practice, Software Engineering, Human-Computer Interaction, Artificial Intelligence Techniques for Robotics