Jay Cheng
Software Engineer

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EXPERIENCE

Lightpath — **Remote/Bethpage, NY**
Software Engineer (via TEKsystems) — Jan 2023 — Current
Full Stack Developer Intern — Jul 2022 — Jan 2023
- Designed, implemented, and enhance a customer portal serving 6000+ users for support ticket creation, invoice and billing management, and metrics reporting using React.js, Spring Boot, and PostgreSQL that led to a 37% increase in traffic
- Collaborated with business analysts, project stakeholders, and project managers to identify products and technical requirements to update legacy Liferay JSP to a modern tech stack using Agile methodology
- Utilize React's components and hooks to manage application state and queries, resulting in the development of a highly efficient, performant, and scalable front-end application that enhances user experience and boosts performance by 16%
- Pioneered creation of user auditing process to assess data accuracy, accountability, and compliance, leading to significant upgrades in security for internal and external users from start to finish; established in 2 weeks

University at Buffalo Nanosatellite Laboratory — **Buffalo, NY**
Software Engineer — 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 essential 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 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 that accelerated the on-boarding process for new group members by 34%

EDUCATION

Georgia Institute of Technology - Part-Time — **Remote**
Master of Science (MS) in Computer Science, Specialization in Machine Learning — December 2026
University at Buffalo, The State University of New York — **Buffalo, NY**
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 uploaded by the user, keywords entered by the 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
- Successfully created and maintained CI/CD pipelines for automated code deployment using Gunicorn and Nginx to host a Flask backend, React.js front-end, and MySQL database on an Apache server that expedited deployment by 42%

Study Seeker (React.js, REST API, CSS)
- 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 using React.js and custom Swagger API
- Produced and presented work that a scrum master assigned to ensure quality software using mobile-first development to fulfill weekly task deadlines using user stories and acceptance tests of over 100+ GitHub issues
- Incorporated ZenHub to create and assign tasks as a kanban board while ensuring tasks undergo proper workspace pipelines and Figma to create wireframe and UI/UX design

Bullboard (Python, JavaScript, MongoDB, HTML, CSS)
- Built a full-stack web application to help students in the university find friends and roommates using Python, JavaScript, and MongoDB in collaboration with 4 other developers
- Achieved implementation of a live map interaction using web sockets for concurrent users and led debugging efforts which resulted in a 21% improvement in run-time performance

SKILLS

Software	Git, Emacs, Xcode, UNIX/Linux, Figma, Vim, Eclipse, VirtualBox, DBeaver
Programming Languages	Python, JavaScript, C, C++, Java
Frameworks	React.js, Node.js, Django, MySQL, Flask, Spring Boot, PostgreSQL
Coursework	Data Structures, Web Applications, Computer Systems Administration, Software Quality in Practice, Applied Human-Computer Interaction, Software Engineering