Jay Cheng
Software Engineer

Brooklyn, NY
917-346-9306
jaykaicheng@gmail.com

jaykcheng.com
linkedin.com/in/jaykcheng
github.com/jaykcheng

EXPERIENCE

Lightpath   **Bethpage, NY**
Software Engineer (via TEKsystems)   Jan 2023 — Current
Full Stack Developer Intern   Jul 2022 — Jan 2023

- Implemented and regularly 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 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   **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 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   **December 2026**
Master of Science (MS) in Computer Science, Specialization in Machine Learning

University at Buffalo, The State University of New York   **May 2022**
Bachelor of Arts (BA) in Computer Science, Minor in Psychology

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, Gunicorn, 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