

Ellis Chung

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Education

Stony Brook University - Stony Brook, NY
Bachelor of Science in Computer Science

Dec 2020

Relevant Courses: Software Engineering, Data Structures, Analysis of Algorithms, Principle of Database Systems, Object-Oriented Programming, Object-Oriented Design, Scripting Languages, System Fundamentals

Skills

Languages: JavaScript, TypeScript, HTML, CSS, SCSS/SASS, Java, Python, Perl, C, Bash, SQL

Frameworks/Databases: React.js, Next.js, Express, Tailwind CSS, Bootstrap, Redux, MongoDB, NoSQL, PostgreSQL

Technologies/Others: Node.js, Socket.IO, Axios, AJAX, REST APIs, jQuery, GraphQL, Git, Linux/Unix, CI/CD, Test-Driven Development, Three.js, Commerce.js, Puppeteer

Experience

Stony Brook WiCS — (Women in Computer Science) | New York, NY
Software Engineering Tutor

Sep 2017 - May 2020

- Led after-school Zoom sessions with a cohort of **15+ students**, focusing on enhancing their proficiency in data structures & algorithms, statistics, object-oriented programming and system design. This initiative resulted in a notable **5% improvement** in their overall success rates.
- Thoroughly debugged students' assignments written in React, Node, and Express, which collectively spanned over **80,000 lines** of code, and delivered constructive feedback to enhance their coding skills significantly.
- Instructed students on building large and scalable RESTful APIs using the MVC design pattern, while also teaching them how to effectively utilize modern databases like MongoDB for storing multiple records.

Project-Based Experience

Market++ | React, Node.js, Express, MongoDB | [Github](#)

Feb 2023 - Present

A full-stack web application that aggregates marketplaces into one easy-to-use platform

- Built responsive components with React and Material UI to enhance user experience.
- Designed a secure Auth-based authentication using JSON Web Token, increasing data safety by 50%.
- Implemented a RESTful API using the MVC design pattern, capable of scaling up to 10,000 users per month.
- Retrieved hundreds of article data from eBay and Etsy APIs, enabling diverse product exploration.
- Analyzed GraphQL requests from Facebook to reverse-engineer third-party APIs for data integration.

OverclockedUSA | React, Commerce.js, Stripe | [Github](#)

Apr 2022- May 2022

An e-commerce web application for computer hardware and tech services

- Built 10+ reusable and responsive UI components using React, improving user interaction across the app.
- Implemented Stripe for dependable payment processing and integrated a secure checkout with token generation, capable of seamlessly handling over 100 requests per second.
- Utilized Commerce.js API to help build a serverless architecture, manage product inventory, enhance user shopping experiences, and optimize user transactions.

GuessTheAnime | JavaScript, React, Socket.IO | [Github](#)

Dec 2021 - Feb 2022

A multiplayer web game where players compete to see who is more well-versed in anime songs

- Architected a microservice REST API powered by Socket.IO, enabling seamless multiplayer communication sessions with over 3 users each and with the capacity to manage more than 100 concurrent sessions.
- Skillfully structured and maintained a robust test-driven development environment with the incorporation of Jest and Cypress, leading to a notable 5% reduction in software bugs.

MixtapePlus | React, Node.js, Express, MongoDB | [Github](#)

Oct 2020 - Dec 2020

A full-stack Spotify clone with advanced data visualization

- Utilized the Spotify API to generate user authentication tokens and to collect comprehensive data on artists, genres, and songs, allowing users to create 300+ personalized playlists, all tailored to their unique preferences.
- Used Recharts to elegantly visualize user interaction within the site, leading to a 15% rise in user engagement.
- Improved bug resolution efficiency and feature implementation timelines by 20% through regular meetings with software engineers. Collaboratively addressed critical project needs to meet tight deadlines.