

Samuel Kim

562-972-9216 | samkunkim@gmail.com | [in samkunkim](https://www.linkedin.com/in/samkunkim) | [@chocopepero](https://www.chocopepero.com) | www.chocopepero.com

EDUCATION

California State University Fullerton <i>Bachelor of Science in Computer Science</i>	2023 – 2025 <i>Fullerton, CA</i>
Cerritos College <i>Association of Arts in Pharmacy Technology</i>	2018 – 2020 <i>Cerritos, CA</i>

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, C#, Java, HTML/CSS **Databases:** PostgreSQL, MySQL, SQLite, MongoDB
Frameworks: React, NextJS, Django, Django REST Framework, Node.js **Cloud Platforms:** Vercel, Railway, AWS
Developer Tools: Git, GitHub, VS Code, Visual Studio, Docker, AWS S3, CloudFront CDN, REST APIs, Vite, Flyway

RELEVANT EXPERIENCE

Consulting Software Engineer <i>CodeDay & OpenEnergyDashboard (Open Source Project)</i>	Jan 2025 – Present <i>Remote</i>
<ul style="list-style-type: none">Mentoring 10 to 15 students in 2 month long cohorts, improving debugging proficiency and reducing setup errors by 30%.Active Maintainer for the Open Energy Dashboard (Open Source): Regular contributor to a large codebase, performing code reviews on 40+ Pull Requests to ensure maintainability and safety in production systems.Improved onboarding efficiency by 30% (so far) by streamlining setup documentation and creating step-by-step guides, reducing setup time and errors for new contributors.Partnering with educators and maintainers to identify and resolve recurring blockers, fostering a smoother contributor experience and stronger engagement.	
Lead Full-Stack Engineer <i>Cerritos College Nursing Program (Capstone)</i>	Oct 2024 – July 2025 <i>Cerritos, CA</i>
<ul style="list-style-type: none">Led the end-to-end lifecycle of a full-stack EMR platform, replacing legacy Excel workflows and directly improving faculty grading efficiency by 40%.Architected a high-availability backend using Django REST Framework, achieving 85% test coverage and validating stability for 1,000+ simulated concurrent users.Established a production-grade CI/CD pipeline using Docker and GitHub Actions to ensure safe, systematic updates and consistent development environments.Partnered with non-technical stakeholders (nursing faculty) in Agile sprints to translate complex requirements into technical specifications and actionable features.	
Supplemental Instruction Leader (Computer Science) <i>California State University, Fullerton</i>	Jan 2024 – Present <i>Fullerton, CA</i>
<ul style="list-style-type: none">Planned and led C++-focused interactive study sessions for an average of 5 students per session (10% of the class) to enhance their grades in three core programming classes: Intro, OOP, Data Structures.Achieved a 10% average grade improvement for attendees compared to students who did not attend.Taught primarily through setting up a "learn-by-doing" progression pathway.	

PROJECTS

MapleStory Character Simulator	
<ul style="list-style-type: none">Architected and launched a full-stack Next.js application to recreate a beloved community tool, attracting 440+ users in the first week of launch.Independently researched and reverse-engineered proprietary file formats (.wz), modifying a C# tool to build a custom data pipeline that processes 50,000+ assets for a modern web application.Developed Node.js scripts to parse, merge, and resolve UOL (link) references from thousands of XML files, seeding a MongoDB database with the unified data.Built a hierarchical React rendering engine that translates parsed origin vectors and map anchor points (x/y offsets) into precise CSS transforms for accurate sprite compositing.Optimized global asset delivery using AWS CloudFront and S3 to serve cached static assets, significantly reducing latency and server load during peak traffic.	
CoLab Code (Full-Stack Collaborative Code Editor)	
<ul style="list-style-type: none">Architected a full-stack, real-time collaborative editor using a React (Vite) frontend and Node.js backend, enabling multiple users to edit code simultaneously.Integrated the Etherpad API to manage real-time document synchronization, user sessions, and collaborative text processing.Containerized all application services (Node.js, React, PostgreSQL, Etherpad) using Docker Compose to ensure a consistent, reproducible development and deployment environment.Implemented Flyway for version-controlled database schema management, enabling systematic and safe updates to the PostgreSQL database.	