Kevin Chen

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Education

Rochester Institute of Technology Rochester, NY
Bachelor of Science in Software Engineering *Expected May 2027*

- **Cumulative GPA: 3.18**
- **Dean's List: Spring 2023, Spring 2025**
- **Relevant Courses:** Eng Cloud Software Systems, Software Testing, Engineering of Enterprise Software Systems, Engineering of Software Subsystems (Embedded), Software Process & Project Management, Web Engineering, Software Development and Problem Solving 1 & 2 (Python, Java, Git)

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C, C++, C Sharp, SQL, Bash.
Web Technologies: HTML, CSS, React.js, Next.js, Node.js, Express.js, .NET, REST APIs, OAuth 2.0.
Cloud & Infra: AWS (Lambda, EventBridge, SNS, Comprehend, EC2, S3, CloudWatch, IAM), Terraform, Vercel.
Databases: MongoDB, PostgreSQL.
Dev Tools: Git, VS Code, Linux/Unix, Postman, cURL, Vim, Docker, Jest, Unix/Linux.
Other Technologies: Apache HTTP Server, STM32Cube, JSON, XML, Selenium.

Projects

MIDI Player | *C, STM32Cube, Git* 2024

- Developed a MIDI player using C and a STM32 Nucleo board to parse and play MIDI files.
- Generated and played musical notes on a piezo buzzer from parsed MIDI data.
- Utilized microcontroller peripherals including USART for file transfer, GPIO for button inputs, DAC for audio output, and NVIC for interrupt handling to create a complete embedded audio system.
- Implemented features such as track selection, button control through external interrupts, and playback.

Enterprise Application Project | *MERN Stack (MongoDB, Express.js, React,, Node.js, Recharts)* 2024

- Designed and implemented a full-stack application using the MERN stack, adhering to departmental and corporate requirements.
- Developed and tested a MongoDB-backed RESTful API with Express.js, including endpoints for CRUD operations, database initialization, and unit tests using Jest.
- Created a React-based client application, integrating features such as filtering, adding, editing, and deleting data.
- Deployed the full application on an Ubuntu server with Node.js and MongoDB, ensuring independent functionality for each department's APIs and client apps.
- Collaborated on implementing a consistent corporate theme across all departmental applications with shared landing pages and branding.
- Conducted operations reviews with the professor and had frequent team meetings.
- Added an integrated dashboard with Recharts for data analytics, providing metrics such as employee breakdowns, sales insights, and cost analysis with interactive visualizations.

WatchOS Llama App | *XCode, Groq API* 2024

- Created a watchOS app voice to voice chatbot.
- Used Groq APIs for Whisper v3 Large and Llama 3.1 70B inference.

Rush Hour Game | *Java, JavaFX, Git, JUnit* 2023

- Worked in a team of three using pair programming to create a JavaFX puzzle while practicing software development best practices.
  - Led the implementation of the core game logic and backtracking algorithm for puzzle solving.
  - Coordinated with team members to integrate JavaFX GUI components.
  - Established Git workflow for version control and implemented JUnit tests for critical functionalities.