

# Kevin Zheng

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## EDUCATION

### Carnegie Mellon University

Pittsburgh, PA

*B.S. in Information Systems, Additional Major in Computer Science*

*Aug. 2023 – May 2027*

- Dean's List High Honors | GPA: 3.8/4.0
- Relevant Coursework: Principles of Imperative Computation (C), Database Design and Development (PostgreSQL, MongoDB), Principles of Functional Programming (SML), Application Design and Development (Ruby, React), Introduction to Machine Learning (NumPy, PyTorch), Introduction to Computer Systems (C, Assembly)
- Extracurriculars: Tech4Society, Phi Delta Theta, Asian Students Association, Taiwanese Students Association

## EXPERIENCE

### Software Engineering Intern

Jun. 2025 – Aug. 2025

*Capital One*

*Dallas, TX*

- Integrated AWS SQS FIFO into a Python microservice to process 1.4 million document uploads per year, reducing review latency from 2 hours to 5 minutes
- Enhanced a Java Spring Boot microservice by building a Kafka consumer and orchestrating REST API integrations for buyer's order validation, automating backend checks and dispatching 70,000 dealer notifications per year
- Automated missing-document feedback, eliminating a 30-second manual validation per application and saving 11,500 funding-agent hours per year

### Undergraduate Research Assistant

Sep. 2024 – May. 2025

*LearnLab at Carnegie Mellon University*

*Pittsburgh, PA*

- Developed the Next.js and React front-end for [GPTutor-Math](#), an AI-powered tutoring platform for multiple CMU math courses, providing homework guidance to 500+ students
- Integrated ChatGPT to facilitate personalized learning, significantly enhancing student engagement and feedback

### Undergraduate Teaching Assistant

Jan. 2024 – Dec. 2024

*Carnegie Mellon University | 15-112 Fundamentals of Programming and Computer Science*

*Pittsburgh, PA*

- Led weekly recitations for 20+ undergraduate students, utilizing real-world coding problems to explain Python concepts such as object-oriented programming, recursion, and algorithmic efficiency
- Conducted 3+ weekly office hours and small group sessions to provide personalized guidance to students
- Evaluated assignments and exams weekly, using detailed rubrics and delivering constructive feedback

### Software Engineering Intern

Jun. 2024 – Jul. 2024

*Qifu Technology Inc*

*Shenzhen, China*

- Integrated MongoDB into the company's internal big data management and analytics platform, enhancing data accessibility and reducing query complexity for users by 40%
- Developed and implemented a whitelist mechanism and toggle feature to securely manage user access to the MongoDB engine for testing purposes, leveraging Apollo for tracking all configuration variables

## PROJECTS

[TalkTalk](#) | *Next.js, React, TypeScript, Tailwind CSS, Postgres, Python, Azure*

Feb. 2025

- Engineered AI-driven short-form video platform for micro-lessons and interactive practice
- Leveraged Azure Speech Services for pronunciation analysis and scoring
- Orchestrated Next.js/React front-end architecture with TypeScript and Tailwind CSS

[PathToSWE](#) | *Next.js, React, TypeScript, Tailwind CSS, Postgres, AWS*

Jun. 2024 – Jan. 2025

- Built a full-stack platform serving 200+ users to find, apply, and track tech internships
- Designed RESTful APIs with JWT & Google OAuth for secure CRUD and optimistic UI updates
- Automated data ingestion via AWS Lambda, SQS, EventBridge into Amazon RDS using BeautifulSoup4

**Time Locker: 112 Edition** | *Python*

Nov. 2023 – Dec. 2023

- Developed a top-down shooter game with a unique time-warping mechanic using Python and CMU graphics
- Implemented irregular-polygon collision detection with vector mathematics and random enemy generation

## TECHNICAL SKILLS

**Languages:** Python, Java, C, HTML/CSS, JavaScript, TypeScript, SQL (Postgres, MySQL, MongoDB), SML, Ruby  
**Tools & Frameworks:** Next.js, React.js, Flask, Node.js, React Native, Expo, TailwindCSS, Prisma, Auth.js, Bootstrap, jQuery, pandas, Ruby on Rails, NumPy, PyTorch, Azure, Git, Jira, Docker, VS Code,  $\text{\LaTeX}$ , AWS, Vercel, Supabase, REST APIs, pgAdmin, Figma, Kafka, Spring Boot, Jenkins, Confluence