

# Kevin Zheng

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## EDUCATION

### Carnegie Mellon University

B.S. in Computer Science, Minor in Information Systems

Pittsburgh, PA

Aug. 2023 – May 2027

- Dean's List High Honors | GPA: 3.8/4.0
- Relevant Coursework: Distributed Systems (Go), Intro to Computer Systems (C, Assembly), Parallel and Sequential Data Structures and Algorithms (SML), Algorithm Design and Analysis, Database Design and Development (PostgreSQL, MongoDB), Machine Learning Systems, Application Design and Development (Ruby, React)
- Extracurriculars: IS Ambassador, Orientation Counselor, Tech4Society, Phi Delta Theta, Asian Students Association, Taiwanese Students Association

## EXPERIENCE

### Software Engineering Intern

Jun. 2025 – Aug. 2025

Capital One

Dallas, TX

- Reduced loan-document review latency from 2 hours to 5 minutes by integrating AWS SQS FIFO into a Python microservice, processing 1.4 million uploads annually
- 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

- Built the Next.js/React front end for [GPTutor-Math](#), delivering AI-powered homework support to 500+ students across multiple CMU math courses
- Engineered a ChatGPT integration for personalized practice with step-by-step hints, targeted feedback, and Q&A

### 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

## TECHNICAL SKILLS

**Languages:** Python, Java, C, HTML/CSS, JavaScript, TypeScript, SQL (Postgres, MySQL, MongoDB), SML, Ruby, Go

**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, L<sup>A</sup>T<sub>E</sub>X, AWS, Vercel, Supabase, REST APIs, pgAdmin, Figma, Kafka, Spring Boot, Jenkins, Confluence