Kevin Zheng

kevinzheng.co | 484-954-8724 | zhenghaoyang141@gmail.com | linkedin.com/in/kevin-zheng-h7 | github.com/kevinzheng117

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: Distributed Systems (Go), Database Design and Development (PostgreSQL, MongoDB), Application Design and Development (Ruby, React), Introduction to Machine Learning (NumPy, PyTorch), Introduction to Computer Systems (C, Assembly), Parallel and Sequential Data Structures and Algorithms (SML)
- 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, LaTeX, AWS, Vercel, Supabase, REST APIs, pgAdmin, Figma, Kafka, Spring Boot, Jenkins, Confluence