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*
- Built AWS SQS dedup-delay queue in Python microservice for reliable processing of dealer document uploads
- Developed Java-based Kafka consumer integrating Gallery Search API to automate document validation
- Implemented real-time notification system, reducing manual reviews and accelerating auto-loan funding

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
- Collaborated with a multidisciplinary team to deploy scalable AI solutions, utilizing Git for version control and Agile methodologies to ensure timely project delivery

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
- Collaborated using Jira, GitLab, and Docker; conducted code reviews and participated in sprints to achieve platform updates

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, LaTeX, AWS, Vercel, Supabase, REST APIs, pgAdmin, Figma, Kafka