David Zhan

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EDUCATION

University of Massachusetts Amherst   Major GPA: 4.0 | **Overall GPA: 3.98**
MS, Computer Science   Expected: Sep 2025 - **May 2026**
BS, Computer Science   Expected: Sep 2022 - May 2025

Coursework: Machine Learning, Data Structures, Algorithms, Networking, Databases, Systems, Web Dev, etc.
Programming: JavaScript/TypeScript, Python, Java, C/C++, C#, PostgreSQL, HTML/CSS/Tailwind, Git/GitHub
Data/ML: PyTorch, NumPy, Pandas, SciPy; **Web/Mobile:** React.js/Next.js, React Native, Express, DBs, Docker

Languages: Native English and Chinese (Mandarin) speaker   **US Citizen**

EXPERIENCE

CollaboTech   Jan 2025 - Mar 2025
Software Engineering Intern

- Built CAD-like UI in Android Studio for industrial machinery, drawing 2D pathing and movement directions.
- Applied previous Java knowledge to learn Android development autonomously without previous experience.
- Delivered project milestones on schedule, with my UI design and functionality meeting all client specifications.

RadWatch — UC Berkeley   Jun - Aug 2021
Data Analyst Intern   Jun - Aug 2020

- Worked on DoseNet, an international sensor network for improving community understanding of radiation.
- Implemented and integrated Python scripts and web tools to process and visualize lots of radiation sensor data.
- Wrote report on my scripts proposing potential use cases while summarizing and documenting my process.

UMass Amherst — CICS   Feb 2024 - Present
Undergraduate Course Assistant (Undergraduate TA, 3 semesters)

- **Outstanding UCA Award:** "extremely proactive, always steps up to help other course staff and has great ideas."
- Grade assignments, teach concepts, help students in computer systems (C) and web development courses.
- Prepare for and present lessons, actively facilitating safe learning environment by encouraging questions.
- Increased student engagement during discussions, receiving positive feedback from my professor and students.

PROJECTS

Expenser   Nov 2024 - Present
TypeScript/JavaScript, Python, LLM (Gemini), React Native, Expo   github.com/kimlengkit1/expenser

- Allow friends to scan and split a receipt automatically when each item on the receipt will be split differently.
- Collaborated as large team with varying experience; dynamics and disagreements led to many conflicts.
- Stepped up as project lead, delegated tasks, mediated conflicts, answered questions, kept everyone on track.
- Resulted with near-ready demo app with basic functionality, able to present despite conflicts and issues.

Blahgenda   Nov 2022
JavaScript, React.js, HTML/CSS (Bulma/Sass)   blahgenda.dzhan.dev — devpost.com/software/blahgenda

- Winning submission to HackUMass X in the category Best Use of Appwrite.
- Collaboratively developed a calendar to maximize user efficiency and glanceability while remaining beautiful.
- Designed UI, improved page flow, implemented core features, presented final product to judges.
- Built with React.js and Bulma CSS to quickly write efficient and maintainable code within the 36-hour hackathon.

Personal Website   Oct 2017 - Present
TypeScript/JavaScript, Next.js, React.js, HTML, Tailwind CSS, Git, Linux   davidzhan.com

- Developed a Next.js static export site to display my programming portfolio, experiences, and contact information.
- Applied Tailwind CSS styling and React components to reduce code duplication and improve maintainability.