David Zhan

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EDUCATION

University of Massachusetts Amherst Major GPA: 4.0 | **Overall GPA: 3.98**
MS, Computer Science Expected: Sep 2024 - **May 2026**
BS, Computer Science Expected: Sep 2022 - May 2025

Relevant Coursework: Data Structures, Algorithms, ML, Databases, Networking, Web Dev, Game Dev, OS etc.
Programming: JavaScript/TypeScript, Python, React.js, React Native, Java, C, HTML/CSS, PostgreSQL, Git/GitHub

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

EXPERIENCE

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.

Academic Talent Development Program Jun - Aug 2019
Teaching Assistant: Web Development, Programming in Java Jun - Aug 2017

- Analyzed student code, assisted in grading, and led many small groups of students in completing classwork.
- Guided groups to better collaborate with each other, be more responsible, and learn on their own.

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

- Overhauled a static HTML site to display my programming portfolio, experiences, and contact information.
- Applied Sass styling and JavaScript loading to reduce code duplication and improve maintainability.