David Zhan

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EDUCATION

University of Massachusetts Amherst GPA: **4.0**
MS, Computer Science Expected Graduation: **May 2026**

University of Massachusetts Amherst *summa cum laude* | GPA: **3.99**
BS, Computer Science May 2025

Coursework: Machine Learning, Reinforcement Learning, Networking, Security, Databases, Systems, Web, etc.

EXPERIENCE

TORQ Sports Sep 2025 - Present
Software Engineering Intern torqsports.com

- Collaborate with engineering team at fast-moving media startup focused on democratizing sports recruitment.
- Overhauled CI/CD DevOps pipelines, reducing deployment downtime by 98.9% and rollback duration by 95.3%.
- Work on-call handling unexpected issues with AWS CLI; Develop full-stack mobile features with Flutter/Node.JS.
- Take charge of infrastructure, lead transition to microservices/Kubernetes for improved resilience and scalability.

Trumptech Digital Education Services Jun 2025 - Aug 2025
Software Engineering Intern trumptech.com/en

- Collaborated with all 4 developers at small Hong Kong edtech company serving local schools with learning tech.
- Architected agentic workflow with LangChain (Python) for creating custom lessons on new platform; reduced teacher friction, training, and onboarding time, aided in marketing and adoption of new platform.
- Designed React.js frontend and microservice backend with PostgreSQL and Go gateway for agentic workflow.

UMass Amherst — CICS Feb 2024 - May 2025
Undergraduate Course Assistant (Undergraduate TA, 3 semesters) groups.cs.umass.edu/uca

- **Outstanding UCA Award:** "extremely proactive, always steps up to help other course staff and has great ideas."
- Graded assignments, taught concepts, helped students in computer systems (C) and web development courses.
- Increased student engagement during discussions, receiving positive feedback from professors and students.

PROJECTS

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

- App automatically scans and splits a receipt among friends 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 manager, delegated tasks, mediated conflicts, answered questions, kept team 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 (Sass/Bulma) 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 Sass CSS to quickly write efficient and maintainable code within the 36-hour hackathon.

SKILLS

- **Tools:** AWS/AWS CLI, LangChain, React.js, PyTorch/NumPy, React Native, gRPC, Docker/K8s, Git/GitHub
- **Languages:** JavaScript/TypeScript, Python, Java, C/C++, Go, C#, PostgreSQL, HTML/CSS/Tailwind
- **Spoken Languages:** Native English and Chinese (Mandarin) speaker