

David Zhan

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EDUCATION

University of Massachusetts Amherst
MS, Computer Science

GPA: 4.0
Expected Graduation: **May 2026**

University of Massachusetts Amherst
BS, Computer Science

summa cum laude | **GPA: 3.99**
May 2025

Teaching Assistant
Former Undergraduate Course Assistant

Feb 2026 - Present
Feb 2024 - May 2025

- Run several weekly lab sessions for 50+ students each, facilitating a safe and collaborative learning environment.
- Coordinate undergrad TAs to manage grading for all students, ensure grades are accurate and released on time.
- Outstanding UCA Award: "extremely proactive, always steps up to help other course staff and has great ideas."

Coursework: Machine Learning, Reinforcement Learning, Networking, Security, Databases, Systems, Robotics...

EXPERIENCE

TORQ Sports
Software Engineering Intern

Sep 2025 - Feb 2026
torqsports.com

- Collaborated 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%.
- Worked on-call handling unexpected issues with AWS CLI; Develop full-stack mobile features with Flutter/Node.JS.
- Took charge of infrastructure, led transition to microservices/Kubernetes for improved resilience and scalability.

Trumptech Digital Education Services
Software Engineering Intern

Jun 2025 - Aug 2025
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.

PROJECTS

Expenser
TypeScript/JavaScript, Python, LLM (Gemini), React Native, Expo

Nov 2024
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
JavaScript, React.js, HTML/CSS (Sass/Bulma)

Nov 2022
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