

Kiet Nguyen (Ken)

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EDUCATION

University of Massachusetts Amherst (GPA 3.99 / 4.0)

Amherst, MA

Bachelor of Science in Computer Science

Aug 2022 – May 2025

- Chancellor's Award Scholarship & Dean's List (All Semesters)
- **Courses:** Operating Systems, Computer Networking, Web Development, Database Design, Data Structures & Algorithms, Computer Vision, Computer Graphics

WORK EXPERIENCE

Freelancer, Web Designer

May 2025 - Current

- Designed and hosted promotional websites for local businesses.
- **Tools:** Astro.js, Tailwind CSS, TypeScript, Digital Ocean Droplet, NGINX server

UMass Humanoid Robotics, Software Team Member

Sep 2024 - May 2025

- Implemented the gRPC communication system to control robots using VR controllers.
- **Tools:** C#, .NET, Unity, Docker, gRPC

UMass Computer Networking Lab, Student Trainee

Jan 2025 - May 2025

- Conducted campus network tests using Cisco routers, switches, and Ubuntu-based environments.
- Authored guides and documentation, reducing hardware deployment errors by **50%**.
- **Tools:** Ubuntu Linux, Cisco Routers, GNS3

PROJECTS

YouTube Precision Search Tool (Python, YouTube API, RSS)

- Custom query builder to track new video upload across languages, with option to build RSS feed.

Project Management Utility (Go)

- Text-based project manager on the terminal, with sync option to Apple Calendar.

Student Support Chatbot (Python, Svelte, MongoDB, AWS Lambda, Terraform)

- Combined official information sources with student social media discussions to answer queries.
- Team of 5 cleaned datasets, trained LLM models and launched a platform for **hundreds of users**.

Interactive Course Database & Planner (JavaScript, Express.js, SQLite, D3.js)

- Team of 4 developed a graph visualization tool to map prerequisites & support academic planning.
- More extensive database than official resources, made available for **hundreds of students**.

SKILLS

Languages: Python, TypeScript, C#, Java, JavaScript, C, C++, SQL, HTML, CSS

Technologies/Databases: .NET Core, Node.js, Express, gRPC, D3.js, MongoDB, PostgreSQL, SQLite

DevOps & Tools : Git, Ubuntu Linux, Docker, NixOS, AWS (EC2, Lambda), NGINX, Digital Ocean

OTHER EXPERIENCE

Gold Award (Top 5 / 50 nationwide) - Nanyang Research Program

Jan 2021 - May 2021

Project Lead, Holography Physics

Nanyang Technical University, Singapore

- Organized lab sessions for a team of 5 and liaised with material vendors.
- Authored a redesign replacing proprietary materials to reduce student prep kit expenses by **40%**.