

KERRICK TRUONG

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EDUCATION

Bachelor of Science in Computer Science and Engineering

Expected Graduation: May 2027

Lehigh University; GPA: 3.82

Bethlehem, PA

Relevant Coursework: Software Engineering, Database Systems and Applications, Systems Software, Linear Algebra, AI Theory, Computer Architecture, Analysis of Data Structures/Algorithms, Operating System Design, Web Systems Programming

TECHNICAL SKILLS

Languages & Frameworks: Java, C/C++, Python, SQL, JavaScript, TypeScript, HTML, CSS, Bash, PowerShell, React.js, Next.js, Node.js, Express.js

Tools & Platforms: Git, GitHub, Jira, Docker, Postman, Figma, TailwindCSS, AWS, Azure, Microsoft Office, Linux, GDB

RELATED EXPERIENCE

DevOps Engineering Intern | Bash, Powershell, Azure, Next.js

August 2025 – Present

BVA Bear

Boiling Springs, PA

- Automated employee onboarding workflows by developing Bash and PowerShell scripts and integrating Azure Automation and Microsoft Graph API, ultimately reducing setup time by 90%.
- Designed and implemented an internal admin dashboard in Next.js, integrated with Azure AD and Microsoft Graph API, creating a scalable system that centralized task management and decreased HR inquiries by 75%.

Software Engineering Teaching Assistant | Maven, JDBC, React, TailwindCSS

August 2025 – Present

Lehigh University

Bethlehem, PA

- Mentored 50+ Software Engineering students by teaching coding standards, debugging techniques, full-stack development, SQL databases, and web technologies.
- Held 5 weekly office hours to assist with system deficiencies and problem-solving, helping students design, implement, and test software projects that met user requirements and improved user experience.

Computer Vision Researcher | Python, Semantic Segmentation

August 2024 – September 2025

Lehigh University

Bethlehem, PA

- Developed and tested ML workflows in Python to address system deficiencies in UAV post-disaster analysis, improving annotation throughput by 70% and enhancing accuracy of semantic segmentation models.
- Processed 30,000+ aerial frames with Detectron2, DVIS++, and TMaNNet, implementing data modeling strategies that boosted classification accuracy by 22% compared to baseline systems.

PROJECTS

FoundationFirst | React.js, Supabase, Tailwind CSS, Gemini

March 2025 – March 2025

- Developed a full-stack application to automate property listings, processing 100+ listings with 100% accuracy.
- Integrated Gemini API to generate AI housing recommendations with 95% relevance accuracy across 50+ user inputs.

PlanIt | React.js, Supabase, Tailwind CSS, Gemini

December 2024 – January 2025

- Built and deployed a personalized travel planning platform using React, Node.js, and PostgreSQL to design and integrate scalable software for 100+ destinations, generating automated itineraries aligned with user requirements.
- Optimized API calls and debugging methods to reduce response time by 30%, ensuring itineraries delivered in under 5 seconds and enhancing overall user experience.

LEADERSHIP & ORGANIZATIONS

Vice President

April 2025 – Present

Association of Computing Machinery Club, Lehigh University

Bethlehem, PA

- Led cross-functional teams to plan 5+ technical workshops and speaker events on AI, security, and web technologies, enhancing communication skills, collaboration, and team environments while boosting membership by over 25%.
- Collaborated with faculty and student organizations to design and implement events that strengthened user experience and promoted professional software development practices.