Kevin H. Bui

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EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
B.S. in Computer Engineering   *Expected May 2027*
- **Concentrations:** Computing Hardware & Emerging Architectures (ECE), Systems & Architecture (CS)
- **Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Digital System Design, Programming for Embedded Hardware/Software Systems, GPU/CUDA Programming for Computing, Operating Systems, Embedded Systems

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, MS SQL, PowerShell, Bash, MATLAB, JavaScript
Tools/Frameworks: Pytorch, Docker, Kubernetes, AWS, Git, React, Flask, .NET, NI LabVIEW, Simulink
Platforms: Linux (Arch, Debian, Fedora, Ubuntu, openSUSE), Unix, macOS, Windows, Proxmox, RTOS, VMs/Hypervisors
Skills: Full-Stack Development, Embedded Systems, Hardware/Software Integration, Verification & Testing, DevOps, SDLC

WORK EXPERIENCE

Carpenter Technology   **Athens, AL**
Systems Engineering Intern   *May 2025 - Present*
- Designed and developed a full-stack **WinUI 3** inventory audit application using **C#**, **XAML**, and **SQL Server**, reducing external audit processing time from **7+ days to zero** and increasing inventory location accuracy by **60%**, while establishing a scalable foundation for routine internal and external audits.
- Streamlined deployment workflows by managing code in **Azure DevOps**, creating automated **CI/CD** pipelines, and containerizing services with **Docker** — cutting release cycle time by **2 days** per iteration and deployment errors by **half**.
- Led Agile, cross-department development with weekly sprints across IT, operations, planning, and finance; managed backlog in **Jira**, delivered MVP ahead of schedule, and incorporated feedback into rapid iterations.
- Built an agent in **Microsoft Copilot Studio** that analyzes and interprets auto-generated **SSRS reports** of completed audits to suggest smarter location-focused audits and targeted operator training, projecting a **50%** reduction in repeat discrepancies and faster identification of high-risk inventory zones.

PROJECTS

Clinical Diagnoser Web App   **Project Link**
Hackathon Project (AI/ML)   *September 2024 - Present*
- Developed an engaging front-end web application using **React, TypeScript, and HTML/CSS**, soon to be integrated with **Firebase** and **Google Cloud** for database management.
- Led the optimization of a GPT-2 model using **PyTorch** that processed a dataset of over 7,000 medical data prompts.
- Reduced the model's error rate by **7%** through prompt engineering and iterative tuning.
- Addressed various challenges, including optimizing the GPT-2 model's training time from **14 to 8 hours**, balancing computational performance with maintaining user-friendly outputs, and ensuring accurate processing of medical terminology.

Home Lab   **Atlanta, GA**
Personal Project (Network Server)   *June 2020 - Present*
- Built and maintained a **custom Linux server** using a Dell PowerEdge Rack and ThinkPad T480s to simulate an enterprise-grade infrastructure with **self-hosted** cloud storage, environment for hosting **VMs**, and **containerization** of applications via **Docker.**
- Deployed a self-hosted cloud storage solution using NextCloud, enabling secure file sharing, synchronization, and collaboration across devices.
- Kept services and dependencies up-to-date by setting up **automated workflows** to apply security patches to Docker images, KVM templates, and base system images, reducing the risk of vulnerabilities.

ACTIVITIES & LEADERSHIP

Propulsive Landers @ Georgia Tech   **Atlanta, GA**
Project Member   *August 2024 - Present*
- Collaborated in a 5-person multidisciplinary team to design **electronic schematics** and **control circuits** for propulsion subsystems, ensuring reliable signal communication and **hardware integration**.
- Led power system **troubleshooting** on prototypes, diagnosing root-cause failures and implementing circuit-level fixes to enhance reliability and test performance.

Vietnamese Student Association (VSA)   **Atlanta, GA**
External Vice President   *August 2024 - Present*
- Served as the sole external **spokesperson** for the organization, managing all communications with university offices, businesses, and community partners to strengthen **visibility** and **trust** across campus and the wider Atlanta community.
- Led a 6-person sponsorship and fundraising team to contact **200+** local businesses, securing over **$15,000** in donations to fund two campus-wide cultural showcases, each drawing **500+ attendees**.
- Prepared and presented detailed sponsorship proposals and logistics plans to university officials and business partners, achieving **100% approval** of funding requests and securing multi-year sponsorship agreements that ensure event sustainability.