

Abdelrahman Qamhia

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EDUCATION

Lehigh University, Bethlehem, PA

Graduation: May 2025

Bachelor of Science in Computer Engineering

GPA: 3.70 | Major GPA: 3.87

Honors: IEEE Honor Society (HKN), Frank Williams Scholarship, Dean's List

Related Coursework: Operating System Design, Network and System Administration, Software Engineering, Web Systems Programming, Computer Architecture, Systems Software, Electronic Circuits, FPGA Development, Microcontroller Development, Signals & Systems, Digital Logic Design, Medical Electronics, Data Structures & Algorithms

INTERNSHIP EXPERIENCE

Prompt Engineer/UX Designer Intern

May 2024 – Aug 2024

WEHEAD, San Francisco, CA

- Developed voice-controlled music playback, integrating NLP and speech recognition APIs for WEHEAD devices
- Created and fine-tuned **15+ AI avatars**, increasing NLP response accuracy and improving overall user interaction
- Designed web-based user interfaces, utilizing **Azure/OpenAI API** for streamlined avatar and system control
- Conducted A/B tests on conversational AI, optimizing **UX by 25%** with feedback-driven iterative improvements
- Deployed devices to various locations, gathering real-time data and refining features based on user feedback

RELATED EXPERIENCE

Grader, Web Systems Programming & Intro to Java Programming

Aug 2023 – Present

Prof. Dominic DeFranzo / Prof. Kallie Ziltz, Lehigh University, Bethlehem, PA

- Graded **50+ assignments weekly**, providing detailed feedback on full-stack projects and CLI-based Java code
- Assisted **150+ students** with debugging and optimizing Node.js, Express.js, React, MongoDB applications, and Java CLI programs

Teaching Assistant, Applied Engineering and Robotics

Aug 2022 – May 2023

Prof. George Witmer, Lehigh University, Bethlehem, PA

- Supervised lab sessions and held office hours for **up to 50 students**, focusing on troubleshooting technical issues
- Managed weekly maintenance of **45+ robots**, ensuring functionality and assisting students with technical problems
- Designed hands-on demonstrations, focusing on real-world applications of embedded systems and robotics theory

Technology and Computer Specialist, West Bank

Apr 2020 – Apr 2021

Nabtech Technology and Protection Systems

- Provided technical support for custom PC builds, network setup, and software issues for **20+ customers daily**
- Diagnosed and resolved driver conflicts, malware removal, and hardware issues, improving system performance
- Expanded client base by **100+** through digital marketing, offering personalized solutions for tech support needs
- Increased **5-star company rating by 50%** by consistently following up with clients to ensure satisfaction

RESEARCH / PROJECT EXPERIENCE

Lehigh University Silicon Valley Social Impact Fellowship

Jan 2023 – Dec 2023

- Developed a **MERN stack** website with an ArcGIS map connecting 200+ food-insecure individuals to resources
- Built 15+ strategic partnerships with food assistance organizations by developing data-driven insights using ArcGIS to map resource needs, ensuring integration with existing support networks to increase access to essential services

Student Project Manager at Restored, West Bank

Jan 2020 – Apr 2020

- Raised **\$15,000** to install solar panels for **30+ households** in a remote village, improving their quality of life
- Applied agile project management to accelerate the project timeline from **three months to one month**
- Recruited and coordinated volunteers and donors through iterative planning and stakeholder engagement

LEADERSHIP / COMMUNITY INVOLVEMENT

Vice President of Lehigh University Table Tennis Club

Jan 2022 – May 2023

- Organized tournaments that fostered community engagement, increasing club membership by **167 members**
- Secured **\$2,000** in funding through sponsorship negotiations, enabling equipment upgrades and enhanced events

TECHNICAL SKILLS

Programming Languages: Java, HTML, CSS, JavaScript, Python, SQL, C/C++, MIPS Assembly, Verilog

Frameworks/Libraries: React, Node.js, Express.js, Material-UI, Pandas, NumPy, Matplotlib, jQuery, Bootstrap

Other Tools: Git, Docker, Maven, VS Code, Dokku, Postman, npm, Linux, LaTeX, MongoDB

Languages: English (Native), Arabic (Native)