

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 Lab, Microcontroller Lab, Signals &

INTERNSHIP EXPERIENCE

Prompt Engineer/UX Designer Intern

May 2024 – Aug 2024

WEHEAD, San Francisco, CA

- Developed and integrated music playback, allowing the device to retrieve and play songs based on voice commands
- Implemented and refined over **15 AI avatars**, enhancing interaction accuracy and user engagement
- Designed web interfaces and integrated with **Azure/OpenAI API**, enabling seamless user control of avatars
- Spearheaded testing and analytics of AI conversations, achieving a **25% performance improvement in UX**
- Deployed and monitored WEHEAD devices at various locations, analyzing customer feedback for improvements

RELATED EXPERIENCE

Grader, Web Systems Programming & Introduction to Java Programming

Aug 2023 – Present

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

- Graded 50+** coding assignments per week, providing constructive feedback with average **48-hour turnaround**
- Supervised 150+** students, assisting with course material and coding challenges
- Evaluated and supervised students' exams, maintaining exam integrity and accurate assessment
- Fostered a collaborative learning environment, **encouraging peer-to-peer support**

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
- Troubleshoot **45+ robots weekly**, maintaining an effective and well-functioning learning environment
- Devised interactive demonstrations, enhancing practical understanding and application of course concepts

Technology and Computer Specialist, West Bank

Apr 2020 – Apr 2021

Nabtech Technology and Protection Systems

- Delivered technical **support to 12+ customers daily**, handling tasks like custom PC builds, OS and software installations, malware removal, and resolving driver compatibility issues
- Acquired 100+ new customers** by implementing targeted digital marketing strategies, expanding the client base
- Boosted** the company's **5-star rating by 50%** through prompt, personalized, and solutions-oriented support

RESEARCH / PROJECT EXPERIENCE

Lehigh University Silicon Valley Social Impact Fellowship

Jan 2023 – Dec 2023

- Developed an interactive website with a map that **connected 200+ food-insecure individuals to food resources**
- Built 15+ strategic partnerships with food assistance organizations, significantly increasing access to essential services for those in need.

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
- Accelerated the project timeline** from three months to one month by recruiting volunteers and donors

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**
- 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

Languages: English (Native), Arabic (Native)