

IIZALAARAB ELHAIMEUR

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Education

Old Dominion University

Doctor of Philosophy (PhD) in Computer Science

Norfolk, VA

Starting: 2026

- Accepted into PhD program, will continue research in AI/ML and Quantum Computing

Old Dominion University

Master of Science in Computer Science – GPA: 3.95

Norfolk, VA

Expected: December 2025

- Courses: Utility Scale Quantum Computing (A), Algorithms (A), AI (A), Deep Learning, Computer Architecture

Old Dominion University

Bachelor of Science in Computer Science – GPA: 3.87, Graduate with Distinction

Norfolk, VA

December 2024

- Dean's List: 2022, 2023, 2024

Technical Skills

Languages: Python, Java, JavaScript, C, C++, Q#, SQL, HTML/CSS, Git, Unix/Linux

Quantum: Qiskit, PennyLane, Cirq, Quantum Algorithms, Quantum Machine Learning

AI/ML: TensorFlow, PyTorch, LLMs (GPT, BERT, Claude), Hugging Face, LangChain, OpenAI API

Agent Development: Google ADK (Agent Development Kit), A2A Protocol (Open Source Contributor)

Data Science: Pandas, NumPy, Matplotlib, Jupyter Notebooks

Cloud/HPC: AWS, Google Cloud Platform, Vertex AI, Docker, Kubernetes, High-Performance Computing

Web/Mobile: React, React Native, Node.js, MongoDB, RESTful APIs

Research Experience

NASA Headquarters

Washington, DC

AI/ML Research Intern

Fall 2024

- Achieved 96x speedup** in scientific paper summarization (8 hours → 5 minutes) using NASA's HPC infrastructure
- Developed Expertise Finder V3 for NASA ADS, **reducing codebase by 40%** while improving maintainability
- Built researcher matching system using advanced NLP to identify expert reviewers from publication histories
- Created deployment documentation for LLMs on HPC resources, enabling future AI research

Old Dominion University

Norfolk, VA

Graduate Research Assistant – Master's Thesis

Fall 2024 – Present

- Presented 4 research posters** at ODU-Google Enablement Partnership showcasing AI and quantum computing work
- Developing AI-powered quantum education platform in collaboration with Google using Google ADK and Vertex AI
- Presented platform at **IEEE QCE 24**, receiving positive feedback from quantum education community

Old Dominion University

Norfolk, VA

Teaching Assistant – Computer Science Tutor

Fall 2024

- Tutoring undergraduate students in computer science fundamentals, programming, and algorithms
- Providing one-on-one and group tutoring sessions to support student success in CS coursework

Publications

Toward Personalizing Quantum Computing Education – IEEE QCE 2024

Oct 2024

- Co-authored peer-reviewed paper on novel Intelligent Teaching Assistant combining knowledge graphs with dual LLM agents
- Designed tag-based system to mitigate AI hallucinations and improve educational outcomes

Projects

Google A2A Protocol – Open Source Contributor | *Python, Multi-Agent Systems*

Fall 2025

- Contributing to Google's Agent-to-Agent (A2A) Protocol for standardized multi-agent communication

ISBN Pricer – Published iOS App | *React Native, Python, MongoDB*

Fall 2024

- 5-star rating on App Store** – real-time book price comparison across major retailers
- Engineered full-stack solution with Python web scraping backend and React Native mobile frontend

DailyPolicyReport.com | *Python, LLMs, Web Development*

Fall 2023 – Present

- Built website using LLMs to provide public access to Congressional bill summaries
- 1,000+ daily visitors**, primarily from European English-speaking countries

Awards & Certifications

IBM Quantum Summer School 2024 – Badge of Excellence | Hugging Face – Agents Course | QWorld – Quantum Computing Certificates