HASHEM ALOMAR

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Education

University of Maryland, College Park   **May 2027**
Bachelor of Science in Computer Science and Mathematics   *GPA: 3.8*

Experience

Software Engineering Intern   **May 2025 – August 2025**
4A Consulting, LLC
- Developed a recruiter dashboard using React & **AWS RDS**, automating interview scheduling for 1,000+ applications.
- Implemented an AI interview platform using Next.js & **AWS SES**, **accelerating hiring process by ~6 days**.
- Created a company-wide customer support chatbot(4o-mini), **saving 100+ hours** of manual work monthly.

Undergraduate Research Assistant - Quantum Machine Learning   **January 2025 – Present**
University of Maryland
- Optimized QLSTM circuitry using **PennyLane**, to predict 10+ equities concurrently, **saving ~$100 per iteration.**
- Achieved **7% higher model accuracy** by testing QLSTM models on **IonQ** hardware across 3–8 qubits.
- **Reduced RMSE (error) by 12%** by optimizing QLSTM circuit depth and topology, leveraging IonQ API.

Chief Technology Officer   **September 2024 – March 2025**
GeneticFit Labs
- Founded and served as CTO of a genetic training startup that raised **$150K in seed funding**.
- Built and deployed a full iOS MVP in **Swift and Firebase**, tested by **20+ pilot users.**
- **Led a 10+ team** of software engineers and designers from ideation through full-stack deployment.

Software Engineering Intern   **May 2024 – August 2024**
Mildenberg Boender & Assoc.
- Designed a project management intranet platform with **React/Next.js**, cutting project timelines by **5%**.
- Reduced document retrieval time by **25%** by integrating a search engine into intranet platform using **Fuse.js**.
- Increased average session duration by **10%** by redesigning the company site with **Next.js (SSR) and React**.

Projects

Crossie — TypeScript, SQL, React, Supabase
- Engineered an interactive annotation Chrome Extension with **500+ installs** and **5,000+ annotations**.

Dr. Terp — React, Typescript, Python, BeautifulSoup
- Built a full-stack web app with **2,000+ visits** to help UMD students make data-driven professor selection.

Craving Hour Halal Foodtruck Website — React(Native), TypeScript, AWS(CF, RDS, Lambda)
- Developed a scalable full-stack website using React, deployed on **AWS Cloudfront**, serving **200+ customers** daily.

Leadership

Startup Shell — *Fellow*   **January 2025 – Present**
- Selected as fellow for student run startup incubator with over $2 billion in venture value.

ProjectLIFT — *Founder*   **April 2025 – Present**
- Founded a student-run club delivering tech solutions to 5+ local small businesses, saving over $50,000+ in expenses.

B!g Think AI — *Vice President*   **August 2024 – Present**
- Lead AI/ML workshops with 30+ students on concepts such as Linear Optimization, Gradient Descent, Random Forest.

Technical Skills

Languages: Python, Java, C, JavaScript/TypeScript, SQL(PostgreSQL)
Frameworks & Dev Tools: Next.js, Git, Express/Node.js, React/React-Native, Firebase, AWS(CloudFront, RDS, Lambda), Tailwind, SQLite, Unix, Supabase
Libraries: PyTorch, NumPy, Pandas, TensorFlow, Scikit Learn, PennyLane