

Ridwan Amin

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EDUCATION

University of Texas at Dallas <i>Bachelor of Science in Computer Science</i>	May 2026 GPA: 3.95
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EXPERIENCE

Amazon Web Services <i>Software Development Engineering Intern - EC2 Elastic Load Balancing</i>	May 2025 – August 2025 Seattle, WA
<ul style="list-style-type: none">Designed a pub-sub asynchronous workflow data publishing service to handle Elastic Load Balancing API event data handling.Reduced an internal transactional database load with the new system by 40%Developed a new topic for publishing asynchronous event data for continuous subscription by the workflow service, allowing ELB provisioning events constantly in real timeCreated shared libraries for data-layer integrations (DynamoDB caching, MySQL replicas) to support scalable async workflows across ELB services	
Fannie Mae <i>Software Engineering Intern - Underwriting Core and Collateral Data Technology</i>	June 2024 – August 2024 Plano, TX
<ul style="list-style-type: none">Developed REST API endpoints interfacing with AWS S3 and DynamoDB, reducing retrieval time by 10% and improving accuracy by 5% for Fannie Mae's Credit APIs and AWS cloud infrastructureWrote JUnit tests with Mockito, achieving over 90% test coverageTechnologies Used: Spring Boot, Open API, Swagger UI, AWS (S3, DynamoDB), Java, Terraform, Jenkins	
UTD Networking Lab <i>Undergraduate ML Researcher</i>	August 2024 – Present Richardson, TX
<ul style="list-style-type: none">Built scalable ML models for network intrusion detection, optimizing anomaly detection and reduced false positivesFacilitated extraction and processing of over 1,000 network traffic data points, improving threat detection efficiency by 30% for real-time DDOS detection	

PROJECTS

HackUNT Winner - FinTeach <i>React.js, Flask, Plaid API, OpenAI API</i>	
<ul style="list-style-type: none">An AI-powered budgeting app built using the Plaid API and a supervised learning model to provide Texas teachers with personalized financial insightsBuilt an AI chatbot with OpenAI API to offer tailored budgeting and investment advice with a React.js and Flask interface	
ACM Projects Winner - CatchUp <i>Flutter, Firebase, FFmpeg API</i>	
<ul style="list-style-type: none">Developed a mobile social media app, facilitating unique daily video montages for enhanced user interactionUsed Flutter to build an interactive and user-friendly UI and Firebase to develop a relational database	
Pilot <i>React.js, MongoDB, Vertex AI</i>	
<ul style="list-style-type: none">Gathers small business information from small businesses, analyzes the answers to develop a risk score, and provide personalized insurance recommendations.Leverages Vertex AI on Google Cloud and machine learning to analyze answers and provide user recommendations	

LEADERSHIP

HackUTD <i>Industry Director</i>	February 2024 – Present
<ul style="list-style-type: none">Lead 30 officers organizing and running the largest Hackathon in the US with over 1,000 participantsOrganized sponsor communication, logistics, sponsor challenges, booths, and promotional materials	

TECHNICAL SKILLS

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

Frameworks/Tools: React, Node.js, Flask, Spring Boot, JUnit, Mockito, Swagger UI, OpenAPI, AWS, Pandas, NumPy, Git, Postman, Gradle, Jenkins, Terraform