

Charles “Charlie” Hamilton

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U.S. Citizen

EDUCATION

Georgia Institute of Technology, College of Computing	<i>Aug 2021 – Dec 2024 (BS) / Dec 2025 (MS)</i>
Bachelor of Science in Computer Science (Artificial Intelligence / Info Internetworks), GPA: 3.88 (Highest Honors)	
Master of Science in Computer Science (Machine Learning), GPA: 4.00	

- Scholarships: Zell Miller; Study Abroad: College of Computing Barcelona Summer Program (Summer 2023)

WORK EXPERIENCE

Amazon Web Services (AWS HealthOmics, Storage and Analytics)	Seattle, Washington
Software Development Engineer Intern	<i>May 2025 – August 2025</i>
• Designed and implemented an account state auditor, improving data integrity for over 1,000 customer accounts.	
• Leveraged AWS services to automate information retrieval and the process of validating resource deletion policies.	
• Built logic to detect and alert on policy violations, reducing data retention risk in customer accounts by 100%.	
• Integrated new auditor with existing infrastructure, enabling adoption across multiple AWS HealthOmics teams.	
Amazon Web Services (AWS HealthOmics, Workflows)	Seattle, Washington
Software Development Engineer Intern	<i>May 2024 – August 2024</i>
• Developed an Ops Bot to automate an existing process to add additional context to auto-cut alarm tickets.	
• Utilized AWS services to handle all tickets of the AWS HealthOmics workflows team, ~100 tickets per week.	
• Implemented in AWS CDK to allow engineers to recreate the workflow, 88% improvement in ticket diagnosis time.	
• Routed over 100,000 logs/metrics from separate accounts to one centralized AWS account using pipeline deployment.	
HeatCheck – Startup Through Georgia Tech’s Startup Incubator Program	Atlanta, Georgia
Part-Time, Full-Stack Developer	<i>August 2023 – May 2024</i>
• Founded startup to provide users a “digital-to-reality” pickup basketball and social media experience.	
• Utilized React Native, Django, and PostgreSQL to implement full-stack native and web applications.	
Revest Finance	Atlanta, Georgia
Developer Intern	<i>May 2022 - August 2022</i>
• Authored a testing template relied on to test 8+ ERC-4626 adapters. Tested for mint, withdraw, redeem, round trips.	
• Constructed unit tests in TypeScript for Solidity programs using Hardhat, improving code coverage by 25%.	
• Updated features on the company website with TypeScript using the Svelte framework.	
• Crafted developer documentation in GitBook for the Revest Resonate protocol. Assessed 50+ functions.	
• Leveraged TypeScript and Hardhat to index through 35.5k form responses and examine their Ethereum wallets.	

TECHNICAL SKILLS

Coding Languages: C, C++, CSS, HTML, Java, JavaScript, Kotlin, Python, SQL, Solidity, TypeScript

Technologies: Django, Docker, Ethers.js, Flask, Git, JavaFX, Jupyter, Next.js, Node.js, NPM, NumPy, Pandas, PostgreSQL, React Native, React.js, Svelte, Web3.js, Xcode, Yarn

AWS Services: API Gateway, CDK, CloudFormation, CloudTrail, CloudWatch, DynamoDB, ECS, EventBridge, Fargate, IAM, Lambda, S3, SQS, Step Functions, VPC

PROJECTS

Tail Me

- Built predictive models to forecast college football win totals. Webscraped/processed news articles and past statistics.
- Implemented sentiment analysis, k-means clustering, and random forest algorithms, resulting in 57.142% accuracy.

Resume Analysis Tool

- Used AI to allow users to upload a resume and job description and receive an edited resume along with suggestions.
- Leveraged React.js, Flask, and the Google Gemini API. Fine-tuned using metrics like BERTScore, among others.

LEADERSHIP

Vice President, Sigma Alpha Epsilon Fraternity	<i>December 2023 – December 2024</i>
• Directed the fraternity judicial system. Planned and managed executive retreats and membership events.	