

EDUCATION

Bachelor of Science in Computer Science

The University of Texas at Dallas

January 2023 - December 2024

Comet Transfer Academic Excellence Scholarship | GPA: 3.9

PROFESSIONAL WORK EXPERIENCE

TickerTrends - Software Engineer

March 2024 - Present

- Implemented and optimized backend API endpoints using **Node.js**, **Express**, **PostgreSQL**, and **AWS EC2**, improving response time by **40%** and supporting **10,000+ daily requests** through efficient data processing and output formatting.
- Developed a **Chrome Extension** using **JavaScript**, **React**, and Google Trends API, deployed via **AWS** and integrated with browser history tracking, boosting user engagement by **60%** in 30 days.
- Drove a **70% growth** in organic traffic by building **SEO-optimized landing pages** targeting high-intent keywords for investors, using structured metadata and performance-optimized content.

Caterpillar Inc. - Team Leader | Senior Project: Web-Based UI for CHP Tool

September 2024 - December 2024

- Led a 5-member senior project team to develop a **web-based UI** for Caterpillar’s CHP feasibility tool, cutting manual data entry by **60%** and increasing recommendation speed by **30%**.
- Integrated real-time pricing via **EIA APIs**, automating cost calculations and enabling comparisons for over **250 configurations**, streamlining decision-making and minimizing errors by **40%**.
- Developed a user interface with **SVG-based charts** and a **PDF export** feature, boosting usability and mobile responsiveness by **40%**.
- Collaborated with stakeholders to deliver software and documentation for integration into Caterpillar’s Digital suite, ensuring compliance with **IT standards** and gaining expertise in **Logical Technical Architecture (LTA)**.

Citigroup | Forage -Technology Software Development Intern Virtual

September 2024 - December 2024

- Designed a state diagram for Citi’s loan management system using **UML**, mapping key states, actions, and transitions to enhance workflow clarity and reduce developer onboarding time by **15%**.
- Proposed a credit risk modeling system using **Python** and **logistic regression**, incorporating input variables such as credit scores and debt ratios to enhance prediction accuracy by **20%** and mitigate dataset biases.
- Created a Java application to query real-time stock market prices via the **Yahoo Finance API**, storing data in a queue and visualizing trends with **JavaFX charts**, optimizing risk monitoring efficiency and cutting manual data collection by **30%**.
- Leveraged **Gradle** for build automation, **OkHttp** for API communication, and **JUnit** for testing, enhancing application reliability and enhancing build errors by **30%**.

JPMorgan Chase & Co | Forage - Cybersecurity Engineering Intern Virtual

May 2024 - August 2024

- Analyzed over **10,000** mobile money transactions to identify and flag fraudulent activities, leveraging **Pandas**, **Python** and data science techniques to enhance fraud detection accuracy by **25%**.
- Implemented security best practices using **OWASP Top 10** and Django, addressing web vulnerabilities and strengthening security.
- Built and trained a machine learning model with **scikit-learn**, classifying emails as spam or ham, and improving email security measures by **15%**.
- Integrated **Django 2FA authentication** and **Python**-based role management frameworks to enhance access control, enforcing least privilege principles and decreasing unauthorized access incidents by **20%**.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, HTML, CSS, SQL, MySQL, C++, C, Bash, Prolog, Assembly.

Frameworks & Operating Systems: Angular, React, Spring, Spring Boot, .NET, PHP, Django, JavaFX, Gradle, Linux, Windows.

Software Tools: Git, PyCharm, VS Code, Visual Studio, Eclipse, IntelliJ IDEA, Anaconda, Microsoft Office Suite, Google Workspace.

Libraries: Pandas, NumPy, Matplotlib, Hibernate, scikit-learn.

CERTIFICATIONS & LICENSES

IBM Full Stack Software Developer Professional Certificate | IBM

Google Cybersecurity Professional Certificate | Google

Amazon Web Services Cloud Practitioner Certificate | Amazon

Career Essentials in Data Analysis by Microsoft and LinkedIn | LinkedIn & Microsoft

Career Essentials in Cybersecurity by Microsoft and LinkedIn | LinkedIn & Microsoft

January 2025 - Present

July 2024 - Present

April 2024 - Present

February 2024 - Present

February 2024 - Present

AWARDS & HONORS

Phi Theta Kappa Academic Excellence Scholarship | Phi Theta Kappa Honor Society

State Farm STEM Scholarship

January 2023 - Present

June 2022 - Present