

# ALLAN MUIR

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## SKILLS

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- **Programming Languages:** *Java, Python (most proficient), C++, JavaScript (most proficient), Go, Swift*
- **Frameworks and Tools:** *React, Bootstrap, Redux, Docker, Kubernetes, NodeJS, Hadoop, Kafka, Gitlab, Prometheus, Metal, VS Code, Jupyter, Cassandra, Linux, Unix, MongoDB*
- **Backend Proficiency:** *React, Node.js, Python, Java, Go, GraphQL, Iceberg*
- **Database Systems:** *SQL, NoSQL*
- **APIs and Architecture:** *RESTful APIs, Microservices*
- **Software Development Lifecycle Tools:** *JIRA, Trello, GitHub*
- **Cloud & DevOps:** *Azure, Docker, Git, PowerShell scripting*
- **Other Tools:** *Figma, Sketch, MS Project,*

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## LEADERSHIP & ACTIVITIES

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- Peer Advisor
- Apple Scholar
- DC-Up Scholar
- Student Ambassador
- Apple Campus leader
- Lead Residential Advisor
- NASA Cam-star Ambassador
- UDC Judicial system Student Ambassador
- Voluntary UDC MASCOT (Firebird Felix)
- Industry & Programming Club – President
- National Society of Black Engineers (NSBE) – Treasurer
- Vice-President of the Graduate Student Body Association
- Thurgood Marshall College Fund (TMCF) Scholarship Recipient (April 2022)

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## PROJECTS

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### *Felix AI*

**Washington, D.C.**

#### *Masters Project*

- Felix AI Student Success Solution uses React for the front-end, Flask for the back-end, and the OpenAI API to create an interactive chatbot. This system is designed to achieve a 90% success rate in resolving academic queries, with all responses branded as "Felix."

### **Fraud Guard AI**

**Atlanta, GA**

#### *TMCF Pitch Competition*

- Led a team of 7 to develop a fraud detection solution utilizing promo engineering, finishing 5th out of 25 teams in the competition.
- Managed project scope and ensured 100% on-time delivery within a 3-day deadline, collaborating effectively in a fast-paced, Agile environment.

### **DeliberEAT**

**Cupertino, CA**

#### *Apple intern Competition*

- Designed and launched a mobile app for personalized meal choices, downloaded by over 1,000 users within the first month.
- Created the company logo and crafted user-friendly home pages using Sketch and Figma, achieving a 4.8/5 user satisfaction rating.
- Demonstrated strong design and coding skills in a fast-paced, team-oriented environment.

### **Tapin: Track, Avoid, and Protect from COVID-19**

**Washington, D.C.**

#### *Hackathon Project*

- Built Led a team to develop a COVID-19 tracking website using HTML, JavaScript, Bootstrap, and Google Maps API, increasing protocol adherence by 50%. Managed timely delivery and responsive design, contributing to the successful launch.

### **Laptop Loaner System**

**Washington, D.C.**

University of the District of Columbia

#### *Project Manager*

- Developed a comprehensive database system managing laptop loans for over 300 students per semester.
- Integrated features like sign-up system, QR code integration, and Qualtrics survey, reducing laptop return delays by 25%.
- Demonstrated strong coding and project management skills through successful system implementation.

## PROFESSIONAL EXPERIENCE

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### **NASA Cam-Star**

**Washington, D.C.**

*Software Engineer intern*

*May 2024 - August*

- Taught students to replicate the Artemis mission, achieving a 95% satisfaction rate through hands-on learning experiences.
- Gained experience in coding and troubleshooting, preparing me for high-quality software development tasks.

### **Apple Inc**

**Cupertino, CA**

*Campus Leader*

*May 2023 – May 2024*

- Organized and hosted over 20 events to promote Apple products, reaching over 5,000 students.
- Led cross-functional teams, increasing product engagement by 30% and event attendance by 20%.
- Provided technical support and collaborated with multiple departments, gaining experience in software and hardware troubleshooting.

### **Apple Inc**

**Culver City, CA**

*Product Design UX/UI intern*

*May 2022 – Aug 2022*

- Created detailed pixel-perfect mockups and interactive prototypes for Apple Maps, including features for transit card multi-stop routing, while addressing trademark considerations.
- Utilized Sketch, Adobe Photoshop, Figma, JavaScript, HTML, and CSS. Presented work to the internal design team, refining ideas and bringing them to life in code.

### **United States Department of Defense**

**Washington, D.C.**

*Undergraduate Research Fellow*

*May 2021 – Dec 2022*

- Applied Multilingual Sentiment Analysis (MSA) to predict threats from social media datasets using Python and NLP, resulting in a top placing at the NEDSI Annual Conference in 2022.

## EDUCATION

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*University of the District of Columbia,*

**Washington DC**

*Master of Science in Computer Science*

*Expected December 2024*

*Bachelor of Science in Information Technology (Concentration in Cybersecurity)*

*December 2022*

- GPA: 3.82/4.0
- Dean's List 2019-2022