

ABDULLAH AL-METWALLY

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EDUCATION

Bachelor of Computer Science, George Mason University 2022 - 2025
Relevant Coursework: Data Structures and Algorithms, Software Analysis, Artificial Intelligence, Formal Models and Methods, Database Concepts, Operating Systems, Algorithms Analysis

SKILLS

Programming Languages	Python, Dart, Javascript, CSS, HTML, Bash, Java, C
Tools and Frameworks	Firebase, Flutter, VsCode, Vue.js, Node.js, Three.js, React, React Native, Git, Github
Operating Systems	iOS, Windows, Linux, MacOS, Unix

EXPERIENCE

MoneyFlap *Sacramento, CA*
Software Engineer Intern *May 2024 – Present*

- Developed **cross-platform mobile applications** using **Flutter** with scalable state management through **BLoC**.
- Integrated **secure payment solutions** using **Deno** and **TypeScript**, ensuring **data security** and **transaction reliability**.
- Employed **Agile practices** to deliver iterative improvements, resulting in **26,000+ waitlist signups**.
- Established seamless **communication between frontend and backend** using **serverless architecture** and **cloud functions**.

Krasnow Institute *Fairfax, VA*
Software Engineer Intern *October 2023 – May 2024*

- Spearheaded the development of an **algorithm to uniquely identify and link neuron sets**, enabling **targeted memory retrieval**.
- Revolutionized neuroscientific approaches to **memory access**.
- Contributed to research teams at the intersection of **cognitive psychology, neurobiology, and AI**.
- Applied **advanced data structures** to enhance **computational efficiency by 40%**.

Sayhan Consultants Inc *Lorton, VA*
Software Engineer Intern *May 2022 – September 2022*

- Engineered a **sophisticated internal web platform** to parse, validate, and format complex user data into structured files, automating **data workflows**.
- Developed an **intuitive, responsive user interface** using **HTML, CSS, JavaScript, and React**.
- Integrated **Firebase DB** for **secure real-time data storage**, improving **data retrieval speed by 30%** and ensuring **99.9% uptime**.

PROJECTS

Drum Jungle — *Tailwind CSS, JavaScript, HTML, Shazam API* *December 2023*

- Built a music streaming web platform with search functionality and genre sorting.
- Integrated the Shazam API to retrieve songs and tailored the interface using Tailwind CSS.

Ride Along — *Flutter, Dart, FirebaseDB, Google's Geolocation API* *March 2024*

- Developed a motorcycle social network app with group rides, multi-factor authentication, user data management.
- Utilized Google's Geolocation API to provide location-based services for users.

Personal Portfolio — *Three.js, Next.js, FramerMotion, React.js, TailWind CSS* *August 2024*

- Built a dynamic portfolio website featuring 3D models and interactive animations
- Implemented state management and animations using hooks, Framer Motion, integrated EmailJS for contact forms
- Implemented custom camera controls for interactive 3D scenes, allowing users to explore models