KUSHAL DEVKOTA

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Education

University of Maryland   **Sep 2020 – May 2024**
Bachelor of Science in Computer Science   *College Park, Maryland*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Network Security
- Computer Vision
- Web Development
- IOS Development
- Ethical Hacking

Awards

- CMNS Scholarship
- Senatorial Scholarship
- Delegative Scholarship
- Dean's List

Experience

Dev Tax & Accounting LLC   **May 2022 – August 2023**
Software Engineer Intern   *Silver Spring, Maryland*

- Developed a fully responsive website using **React.js** and **Chakra UI**.
- Integrated a secure file transfer system for users to upload files securely, while also implementing backend email functionality to ensure seamless communication.
- Developed a **Python** script to automate the distribution of paychecks to clients, enhancing the efficiency and accuracy of financial operations.
- Launched **AWS EC2** virtual servers to enable remote work and increase employee access. Configured security and networking settings for client data protection.

Projects

Gainz | *React Native, TypeScript, Python, AWS, Clerk, Tamagui*

- Co-Developed a **React Native**/Expo mobile full stack application for fitness tracking and social networking.
- Designed and implemented a **RESTful API** on **AWS**, leveraging **API Gateway** to efficiently manage and route incoming requests.
- Developed **Lambda Python** functions to process requests, handle data operations, and interact with **DynamoDB (NoSQL)**.
- Integrated user authentication and data security with **Clerk**.
- Utilized **TypeScript** and **Tamagui** for building a responsive, type-safe frontend.

Real-Time Chat App | *Springboot, Java, Typescript, HTML, Tailwind*

- Developed a real-time chat application using **Java**, **Spring Boot**, and native **WebSockets.**
- Implemented secure user authentication and authorization with **JWT (JSON Web Token)**.
- Built a responsive front-end with **Typescript** and **Tailwind.**

TerpExchange | *Swift, Google Firebase*

- Led a team to develop an IOS application using **Swift**, enabling students on campus to buy and sell products.
- Integrated **Firebase Cloud Firestore** for real-time data management including peer to peer communication through chat functionality.
- Reduced product image storage overhead by **40%** through efficient utilization of **Firebase Storage**.
- Implemented security protocols by leveraging **Firebase Authentication** to restrict access to campus students only.

Sorting Algorithm Simulator | *Javascript, React*

- Created a website using **React.js** that simulates sorting algorithms, providing a hands-on and interactive learning experience.
- Incorporated time complexity, auxiliary space, and stability analysis for each sorting algorithm.
- Assisted peers in improving their test scores by **15%** through the utilization of the simulator as a study resource.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, Swift, C++, PHP, HTML
Frameworks/Libraries: React.js, Next.js, Express.js, Springboot, Tamagui, Tailwind
Other: SQL, NoSQL, Node, Git, API's, Google Firebase, AWS, Agile Programming