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, Computer Vision, Network Security, Ethical Hacking, Web Development, IOS Development
Awards: CMNS Scholarship , Delegative Scholarship, Senatorial Scholarship, Dean's List

Experience

Dev Tax & Accounting LLC — **June 2023 – May 2024**
Full Stack Developer — *Silver Spring, MD*
- Contributed to the development of a responsive website using **React.js** and **Chakra UI**, improving UI/UX.
- Assisted in building a client portal using **Firebase** and **Next.js** for data uploads, task management, and secure file exchanges, optimizing backend workflows.
- Developed an automation script using **Python Selenium** to process monthly tax payments, increasing efficiency and minimizing errors in handling payments up to $10,000.
- Configured and managed **AWS EC2** instances to deploy web services, ensuring secure and reliable remote access.

Pastel Software Solution — **January 2022 – December 2022**
Software Engineer Intern — *(Remote)*
- Assisted in developing RESTful APIs using **Node.js** and **Express.js** to enable key features of an NFT Marketplace.
- Contributed to the configuration of **AWS S3** buckets for storing NFT assets and supported the deployment of backend services on **EC2** instances, ensuring system reliability.
- Collaborated on setting up **Jenkins** pipelines for automating build and deployment processes, reducing manual tasks and deployment times.
- Supported the development and testing of **Solidity** smart contracts for token creation and transaction handling.

Projects

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

NBA Match Predictor | *Python, Pandas, scikit-learn*
- Created a model to predict NBA matches, integrating data scraping with **Pandas** and **machine learning**
- Achieved 65% prediction accuracy as measured by test data, by building and tuning Logistic Regression, Random Forest Classifier, and XGBoost models with **Scikit-learn**

Real-Time Chat App | *Spring Boot, 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 campus students to buy and sell products
- Integrated **Firebase Cloud Firestore** for real-time data management and peer-to-peer communication through chat functionality
- Reduced image storage overhead by **40%** through efficient use of **Firebase Storage**.
- Enhanced security with **Firebase Authentication**, restricting access to authorized campus students

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, Swift, C++, PHP, HTML/CSS
Frameworks/Libraries: React.js, Next.js, Express.js, Spring Boot, Tamagui, Tailwind
Tools/Platforms: AWS, Google Firebase, Docker, Git, UiPath, Node.js, REST APIs
Databases: SQL, NoSQL (DynamoDB, Firestore, MongoDB)