Faizan Naseer

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EDUCATION

University of Toronto   **Sep. 2021 – Apr. 2025**
BSc Computer Science   *Toronto, ON*
- Courses: Programming, Discrete Math, Calculus, Linear Algebra, Software Design (Java), Numerical Algorithms for Computational Mathematics, Systems Programming (C), Data Structures & Algorithms (C), Theory of Computation, Computer Organization
- Awards: UofT International Scholar Award, UofT Scholar Award, Dean's List Scholar

WORK EXPERIENCE

Silicon Fen Venture Fund   **May. 2020 – Sep. 2021**
Project Manager   *Dubai, UAE*
- Facilitated the development of **20 youth-led startups** by providing industry insights and mentor networking, as well as organizing entrepreneurial seminars and weekly advising sessions
- **Secured funding ($10000)** from multiple schools to support student prototyping initiatives

ICC Academy   **Mar. 2018 – Apr. 2018**
Research & Management Intern   *Dubai, UAE*
- Conducted market research on competitor offerings and presented findings to employers, helping the company gain a competitive edge in terms of services provided and **20% comparative revenue increase**
- Coordinated sport management operations, resulting **25% increase in class productivity** and higher levels of **customer satisfaction**

PROJECTS

Audio Intellect (GitHub/Website)   **Nov. 2023 – Present**
- Created a dynamic web application (**ReactJS** & **Tailwind**) that utilizes generative AI to create meeting and lecture summarizations & notes, as well as relevant follow-up information for students and employees alike, leveraging fine-tuned **APIs** from **Gladia.io** and **OpenAI,** as well as libraries such as **LangChain**
- Includes recording, uploading & categorization features for users to access their follow-up info instantly, **reducing inefficiency by 25%**
- Engineered a robust **RESTful API** (**Express** and **Node**) to ensure efficient communication between the client and server, facilitating seamless retrieval and deletion of recordings, as well as **increased security** with external API calls
- Managing the deployment of the **MERN** application on an **AWS EC2**-hosted Ubuntu server, as well as using **AWS S3** buckets for recording storage, emphasizing scalability and data integrity for optimal performance

Content Management System (GitHub/Website)   **Jun. 2023 – Jul. 2023**
- Developed a robust content management system with authorization features using **json web tokens** and **MVC architecture principles**, providing the ability to seamlessly carry out CRUD operations as well as work on content concurrently through utilizing **socket.io**
- Created an engaging landing page to display created content in a protective, user-friendly manner, using **ReactJS** and **Tailwind CSS**
- Engineered a **RESTful API** with **Express and Node**, ensuring efficient communication between the client and server, as well as security
- Deployed CMS on a public server using **Vercel** as well as stored data in **MongoDB Atlas**, to allow for increased scalability and data integrity

Degree Design (GitHub)   **Nov. 2022 – Dec. 2022**
- Conceptualized and developed an Android app catering to student needs (through the SDLC), by using inputted taken and desired courses to generate a personalized degree timetable. Utilized **Android Studio**, **Java**, and **Firebase** to create a seamless user experience between the front and backend.
- Implemented admin functionality allowing authorized users to manage course information, including addition, editing, and deletion of course details such as prerequisites
- Used an **agile** methodology (**scrum**) in a group of 4 with regular stand-up meetings, and weekly sprints, assisted by the utilization of **Git** and **Jira**.
- Implemented **JUnit** and **Mockito** testing methodologies to conduct thorough functionality tests, enabling the identification and resolution of bugs and issues

Hotel Ease (GitHub)   **Mar. 2023 – Apr. 2023**
- Orchestrated the development of an iOS app using **React Native** and **GraphQL**, allowing users to log in and effortlessly search for hotels based on location and family-specific requirements, ensuing a **reduction in time wastage** by **20%**
- Leveraged **AWS Amplify** for streamlined backend functionality, ensuring a robust and scalable solution for hotel searching

System Monitoring Tool (GitHub)   **Feb. 2023 – Mar. 2022**
- Developed a **C** script that monitors system memory & CPU usage by displaying running processes and graphical information on File Descriptor tables.
- Automated execution of script through using **Makefile** and **shell** scripting, **reducing compilation issues** by **100%**

Huffman Encoding (GitHub)   **Nov. 2022 – Dec. 2022**
- Engineered a Python program utilizing a lossless, greedy Huffman coding algorithm for efficient compression and decoding of user input, via the integration of data structures such as **heaps** and algorithms such as **DFS** for optimal performance.

SKILLS

- **Languages:** C, Python, Java, R, JavaScript, TypeScript, HTML, CSS, Tailwind CSS, Racket, Haskell, Prolog
- **Frameworks & Libraries:** ReactJS, ExpressJS, NodeJS, React Native, NextJS, NumPy, Socket.io, Scikit-Learn, Pandas, Langchain
- **Tools:** AWS(EC2, Amplify, S3), MongoDB, GraphQL, Jira, Git, GitHub, Figma, Android Studio, Postman, MS Office, VS Code
- **Soft Skills:** Teamwork, Communication, Problem-solving, Attention to detail, Time Management, Creativity, Critical thinking