Basil Yusuf

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Work Experience

Software Developer Intern, University of Guelph (*May 2022 to August 2022*)

- Shipped **5+** features on the ResearchSpace application to help store semantic metadata using SPARQL queries
- Reduced **20%** of production time by refactoring old Handlebars.js templates to TypeScript React Components
- Adapting, modifying and integrating existing tools into LINCS interfaces with proper testing and documentation
- Gaining extensive experience working in an Agile software development team consisting of **3** members
- Technology Stack: TypeScript, React.js, SPARQL, Handlebars.js, OpenRefine, Docker, GitLab CI/CD

Lead Software Engineer & Co-Founder, Fiable (*May 2022 - Present*)

- Assisting to setup a startup with **3** other members to solve the problem of short transportation and air pollution
- Carried out the full-scale development of the native mobile app with my team in less than **48** hours
- Integrated APIs like Google Maps API, Google Directions API, etc and hosted them on Google Cloud Platform
- Technology Stack: React-Native, Google Cloud Platform, Google Maps API, Figma, Expo-CLI

Selected Independent Projects

Beachify, *MVC Architecture*

- Validated, configured, designed and programmed a NoSQL database using Mongoose Schema and MongoDb
- Developed a Rest API using Node.js and Express to read, save, edit and add information of the user's plan
- Authenticated using the DeSo Identity API and saved transaction history on the Hedera Test Network
- Technology Stack: MongoDB, Express, Node.js, React.js, Hedera, DeSo Identity. Link: http://shorturl.at/xJZ18

Voice Assistant AI application, *Artificial Intelligence, Alan AI*

- Wrote scripts for the Alan AI API to recognize speech with **95%** precision and search for **60+** news results
- Integrated the usage of **3** different REST APIs to work together and render every component in a smooth fashion
- Technology Stack: REST API, React.js, Node.js, Alan AI, Material UI, Nelifty. Link: https://shorturl.at/bxJLY

Algorithm Design & Data Structures, *Data Structures*

- Extended study about different use cases of data structures like HashMaps, Linked lists, Arrays, etc
- Coded and studied multiple algorithms to compare time and space complexity. Also solved DB problems.
- Technology Stack: Python, Java, MySQL, Link: https://shorturl.at/imqKX

In-Course Projects

ePortfolio Manager, *Object Oriented Programming*

- Built a Java application that helps in tracking and modifying investments with **99%** accuracy
- Implemented core OOP concepts such as Polymorphism, Encapsulation, Inheritance, Overloading and Overriding
- Technology stack: Java, Java Swing, VS Code, OOP and Documentation Link: https://shorturl.at/gouIS

Bash Shell, Linux and C Programming

- Enacted a shell that replicates the functionality of Bash Shell using C programming and POSIX system calls
- Technology stack: C, POSIX, Memory Management, Makefiles and Documentation Link: https://shorturl.at/egszD

Technical skills:

- Python, AWS, MySQL, Java, C/C++, Alan AI, API, Data Structures, Algorithms, REST API, Docker, Scrum,
- JavaScript, React, Redux, Material UI, Ant Design, Node.js, jQuery, Ajax, Axios, HTML/CSS, WordPress,
- User Testing, Debugging, Makefiles, Linux, Assembly, Visual Studio, Bash, Kubernetes, SPARQL

Education:

University of Guelph, Bachelor of Computing (*Sep 2020 to Apr 2024 Expected*)

- Major GPA: 3.78. Relevant courses: Data Structures: **99/100,** Algorithms: **98/100**, Operating Systems: **89/100**, OOP: **92/100**

Awards:

- **GryphHacks -** People's Choice Award and Best Use of Google Cloud Platform
- **Coastal Hacks -** 2nd Overall (150+ participants) and Best Blockchain project using Hedera
- **Mental Health Hacks II -** Best use of DeSo and Best use of CockroachDB
- **University of Guelph -** Dean's Honors List (Fall 2020, Winter 2021, Fall 2021, Winter 2022)
- **University of Guelph -** $5500 Entrance Scholarship (4.0 Entrance Academic Average)

Extracurricular activities:

Manager, Streetwriter's Club (Dec 2020 to Sep 2021)

- Led the debate section of a club of over **35000** members. Developed a curriculum for weekly debates