Nizar Jandal Alrifai

saber74.github.io njandala@uwaterloo.ca linkedin.com/in/nizar-alrifai/ github.com/saber74

Education

University of Waterloo **Sep. 2019 – May 2024 (expected)**
Bachelor of Applied Sciences in Computer Engineering *Waterloo, ON*

- 2 times Dean's Honor list (top 15 in cohort of 160) with an average of 96.5% in 2nd year

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Web-Dev: HTML5, CSS3, Javascript, Typescript, Node.js, React.js, Django, Koa, REST API, Bootstrap
Other: Git, Jenkins, Docker, Redis, PostgreSQL, CI/CD , Maven, Azure, Gradle, Linux, Unix, Jfrog, PCF, Pytest

Experience

Wealthsimple **August 2021 – Current**
Software Engineer Co-op *Toronto, ON*

- Using **TypeScript, Ruby, Java, Redis, PostgresSQL, AWS, and more** to ensure backend systems that support Trade are resilient and can scale to massive user traffic and order volume
- Architectured and executed a plan to strongly type objects in the trade repository, refactoring **over 4000 lines of code across 500 files** and reducing the technical debt of the code base

Manulife Financial **January 2021 – April 2021**
DevOps Engineer Co-op *Waterloo, ON*

- Provided continuous development and functional testing on **40+** Jenkins Pipelines used by **500+** employees using **Groovy**
- Used **Node.js** and **React.js** to create various internal web-based solutions to facilitate other teams in the organization
- Automated various tasks leveraging REST APIs resulting in **100x faster** setup/cleanup time to teach employees new skills
- Developed utilities and scripts utilizing **Python** and **Shell** scripts to assist in multiple major migrations of tools
- Created new pipelines using **CI/CD** principles, integrating code quality tools like **SonarQube**, and pushing Artifactories to **Jfrog**

Sony Interactive Entertainment (PlayStation) **May 2020 – August 2020**
Software Engineer Co-op *Waterloo, ON*

- Worked on the PlayStation 4 Console Store using **Python** to migrate to new API dependencies to unify logic across platforms
- Supported world-wide releases of the **$20+ billion** yearly console store through integration and regression development and testing
- Optimized regression test suites to be be **19.83%** faster, through code and logic recreation and optimization
- Designed and developed automated tests with maximum requirement coverage through **Pytest**
- Maintained multiple environments using **Docker**, and performed code execution through custom-made **Jenkins** pipelines

Canada South Science City **July 2019 – September 2019**
Full Stack Software Developer *Windsor, ON*

- Built the organization's main website from scratch, using up to date responsive design through **HTML5**, **CSS3**, and **Bootstrap**
- Integrated **Javascript**, for a functional and interactive design, boosting the website's monthly visitors by **317.6%**

Projects

BusyMaps **Hack the 6ix**

- Winner of **Geotab: Ignition Data Challenge**
- Relayed user input to a **Flask** based back-end using custom made API end points and **Microsoft Azure**
- Utilized **Javascript** to develop an interactive attractive front-end user experience
- Created a real-time platform to visually represent busyness of areas using data from **Geotab** and **Google Places** API
- Established front-end to back-end communications using query-able **RESTful** endpoints

Mini-Games Android Mania **Personal Project**

- Developed a series of entertaining multiplayer visual **Java** games using **LibGDX**
- Created an app to utilize phones as controllers, using **Android Studio**
- Established a connection using sockets between laptops and phones through a remote **Digital Ocean** server

SeizeControl **Hack the North**

- Utilized **OpenCV, Firebase, Pytube, HTML** and **CSS** to create a Chrome extension to filter seizure-inducing YouTube videos
- Processed and analyze pixels per frame using self-designed mathematical algorithms through **Python**
- Modeled the data collected and analyzed in an interactive user-friendly manner utilizing **Javascript**

Bored **MasseyHacks**

- Created an app utilizing **Python/TKInter UI** to find nearby entertainment locations according to the user's mood
- Retrieved nearby locations data (directions, reviews, hours, etc..) in **JSON** form using **Yelp, Google, and GeoCoder API**