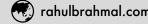
# Rahul **BRAHMAL**









# **Objective**

Obtain a Full-Time Software Development Position for the Spring of 2020

## Work Authorization

- Malaysian Passport Holder
- Tier 1 Visa Holder in UK

### Education

### Georgia Institute of Technology

- Bachelors of Science in Computer Science
- Threads: Artificial Intelligence, Machine Learning, Databases, Networking, Information Security
- Expected Graduation: December 2019

## Skills

### Software Development:

 Python, JavaScript, Java, Node, js, C, Ruby

### Frontend Development:

 React.js, Bootstrap, HTML/CSS, Sass, Sketch

### Tools / Frameworks:

• Docker, Tensorflow, PostgreSQL, MongoDb, Bootstrap, Git, Nginx

### Platforms:

• Flask, Rails

#### **Programs:**

• Matlab, Solidworks, Creo

# **Projects**

### Imbue: A Stock Analysis Platform

Technologies used: Python, Flask, Pandas, NLTK, React.js, Nginx, Docker, PostgreSQL

- Developed a platform that allows users to back-test technical analysis strategies on US Stocks
- · Developing classification techniques to analyze companies using bayesian networks and fuzzy logic
  - · Developed the ability to input multiple non-price based data streams and yield classification values

### Merchu: A Virtual Assistant

Technologies used: Python, Rasa Core, Rasa NLU, Tensorflow, Selenium, React, Docker, PostgreSQL

- Developing a chatbot that completes personalized requests pertaining to services I use
- · Parsed data ranging from Google calendars to scraping personal bank account information for use in the assistant
  - · Allowed for unique insights to be derived between services who's data is not typically integrated
- Learned NLP Techniques and popular pipelines for intent and entity classification
- · Developing various front-end applications for different mediums, using React and React Native

### Job Leads Scraper

Technologies used: Python, Selenium, Docker, PostgreSQL

- Developed an automated bot that scrapes job boards, and notifies me should I fit the credentials for a job posting
- · Developed Scraper classes that efficiently take multiple xpath values and outputted their corresponding elements • Sped up deployment of scraper on subsequent job listing sites
- · Saved hours every day finding job appropriate job leads, whilst allowing me to efficiently apply to new postings as they became available

### **Automated Online Purchasing Bot**

Technologies used: Python, Node.js, Selenium

- Developed various sneaker bots to help secure pairs of limited edition apparel on various websites
- · Used open source tools to determine where websites were hosted, and effectively deployed bots on AWS servers located nearby to reduce latency
- Increased successful checkouts on major websites by over 50%
- · Saved significant time and cost over using publicly purchasable bots that have mixed success rates

# Experience

### Ridesharing Company: Grab

Intern Software Engineer on Services & Tools Team

- Implemented front-end chatbot interaction features in JavaScript
- Implemented backup agent feature for NLP Chatbot using Dialogflow API's
- Wrote automated test cases for Dialogflow Agent
- Participated in the ideation of future products and features down the pipeline within the Services and Tools team

### Private Equity Firm: Creador

Intern Product Manager on Mr. DIY Ecommerce Team

- Worked with software development, warehousing, logistics, marketing and corporate teams to outline launch expectations
- Created a unique order management ecosystem using Magento that had yet to be implemented in Malaysia
- Helped successfully launch ecommerce site on schedule
- Ecommerce website directly competes with the likes of Lazada and other major online retailers in the country

### Aerial Robotics Lab, Imperial College London

Intern Engineer on AQUA MAV Team

- Designed the exterior hull of the MAV using Solidworks and Creo
- · Prototyped designs with an industrial 3D-Printer
- Tested and chose base material for MAV prototype
- Awarded a publication credit on the paper released in mid-2019

### Saora Industries

Intern Engineer on Water Lilly Project

- Assisted in developing an affordable solar-powered water filter that provides clean drinking water to rural Malaysian villages
- Refined the water filtration process, such that electric power is not required

Kuala Lumpur, Malaysia

May 2018 - June 2018

Kuala Lumpur, Malaysia

June 2018 - May 2018

London, UK June 2016 - August 2016

Kuala Lumpur, Malaysia May 2014 - May 2015