Rahul **BRAHMAL**

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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
Kuala Lumpur, Malaysia
Intern Software Engineer on Services & Tools Team
June 2018 - May 2018

- 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
Kuala Lumpur, Malaysia
Intern Product Manager on Mr. DIY Ecommerce Team
May 2018 - June 2018

- 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
London, UK
Intern Engineer on AQUA MAV Team
June 2016 - August 2016

- 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
Kuala Lumpur, Malaysia
Intern Engineer on Water Lilly Project
May 2014 - May 2015

- 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