

Erik Babu



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EDUCATION

Imperial College London | MEng Computing

London, United Kingdom
Oct 2016 - Jun 2020 (Expected)

Expected Degree Classification: First Class Honours

Distinctions: Team leader of group that won the *Department of Computing Corporate Partnership Programme* awards for **Outstanding Group Project** and **Outstanding Presentation** in 'Topics in Computing' for designing a website that introduced Convolutional Neural Networks ♦ Mar 2017

Maru-A-Pula School | A-Levels & IGCSEs

Gaborone, Botswana
Jan 2009 – Nov 2015

A-Levels: A*A*A*A - Computing, Mathematics, Physics, Chemistry

IGCSEs: 9A*, 1A - Accounting, Biology, Chemistry, English 1st Language, English Literature, French, Information and Communication Technology, Mathematics, Physics, Additional Mathematics

Distinctions:

Silver Certificate – De Beers Group English Olympiad ♦ Aug 2013

Service Awards (x3) - Recognition of outstanding volunteer work ♦ 2012, 2013, 2015

WORK EXPERIENCE

Bloomberg LP | Software Engineering Intern

London, United Kingdom
Apr 2019 – Sep 2019

- Developed short term intra-day volatility models for FTSE100 securities, using Python and TensorFlow.
- Using proprietary JS framework, built prototype to visualise real-time forecasts from the models.
- The prototype will be refined and eventually integrated into the analytics suite offered to customers.

American Express | Technology Engineer Intern

Burgess Hill, United Kingdom
Jun 2018 – Aug 2018

- Using Elastic Stack, developed monitoring tool which tracked file transfers to/from partners. Resulted in engineers no longer requiring manual checks (slow and error-prone) to determine if a transfer succeeded.
- Worked with a start-up, loyalBe, for half a day each week as part of the internship. Using Spring Boot, built a REST API for feedback submission. In React, created dashboard for retailers to view/reply to feedback.
- Followed agile practices as part of scrum team to ensure consistent delivery of value after each iteration.

Giraffe | Intern

Johannesburg, South Africa
Apr 2016 – Jul 2016

- Created Cost per Acquisition dashboard which allowed the head of product to analyse the effectiveness of social media marketing campaigns to increase the platform's userbase.
- Performed data analysis on user metrics. The results were included in board decks for investor meetings.

SKILLS, PROJECTS & INTERESTS

Technical Skills:

Proficient: Python, Java, SQL, Bash scripting

Familiar: C, C++, Go, JS, Haskell, Ruby, Elastic Stack (ELK), HTML, Less & CSS

Frameworks used: Django + Flask + TensorFlow (Python), React + Redux (JS), Spring + Maven (Java)

Noteworthy Projects (Full details available on my personal website):

- Imperial College London digital assistant – Python/Flask, Keras, React, AWS Elastic Beanstalk ♦ 2019
- Web App that connects help-seekers with job-seekers – Python/Django, PostgreSQL, HTML, CSS, JS ♦ 2018
- Implementing schedulers, syscalls and virtual memory for Pintos Operating System – C ♦ 2018
- Fully functional enigma machine with customisable rotor configurations – C++ ♦ 2017
- Building a full compiler for a complete, statically typed language – Java + ANTLR, Ruby ♦ 2017
- Assembler and emulator for subset of ARM11 instructions – C ♦ 2017

Interests: Football, Formula 1, Stand-up comedy, Volunteering