




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:

1st Place - National Database Design Competition ♦ Sep 2013

Silver Certificate – De Beers Group English Olympiad ♦ Aug 2013

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

WORK EXPERIENCE

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 needing to manually check (slow and error-prone) 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: Java, C, SQL, Python

Familiar: C++, Haskell, Ruby + Bash Scripting, Elastic Stack (ELK), VB6.0, JS, Less, HTML & CSS

Frameworks used: React + Redux (JS), Spring + Maven + JUnit & Mockito (Java), Django (Python), Bootstrap

Noteworthy Projects (Full details available at www.linkedin.com/in/erikbabu):

- Web App that connects help-seekers with job-seekers – Python/Django, PostgreSQL, HTML, CSS, JS ♦ 2018
- Writing schedulers, implementing syscalls and virtual memory for Pintos Operating System – C ♦ 2018
- LSB Image Steganography tool that encodes/decodes text in images, undetectable by humans – C++ ♦ 2018
- Fully functional Enigma Machine with customisable rotor configurations – C++ ♦ 2017
- Building a full compiler for WACC: a complete, statically typed language – Java + ANTLR, Ruby ♦ 2017
- Assembler and emulator for subset of ARM11 instructions – C ♦ 2017
- Supermarket loyalty rewards system for A-Level Computing final project – VB6.0 & MySQL ♦ 2015

Interests:

Football, Formula 1, Stand-up comedy, Volunteering