

IAN MACALINAO

SOFTWARE ENGINEER

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🧰 WORK EXPERIENCE

Google

Summer 2016 (present)

Software (Site Reliability) Engineering Intern

- Created a dashboard to find the root cause of production alerts using conditional probabilities across a service dependency graph
- Developed a system to detect production anomalies and alert SREs

Uber

Spring 2016

Software Engineering Intern, UberEATS

- Implemented a per-restaurant maximum delivery radius, resulting in a ~7% estimated increase in gross bookings
- Helped develop a staging environment for EATS-specific services
- Increased stability of services as UberEATS grew from 1 to 15 cities by improving logging, performing load tests, and adding CI

ResearchNow

Fall 2015

Software Engineering Intern

- Constructed a load testing framework in Scala using Gatling to generate dummy ad impression data for testing a MapReduce pipeline
- Developed an ETL pipeline to aggregate data from Hadoop HDFS using Apache Spark and Cloudera Impala, resulting in a ~5x speed improvement over the existing Pig/Hive/Oozie pipeline

IFTTT

Summer 2015

Software Engineering Intern

- Reworked a reporting system to work on-demand using Amazon Redshift, resulting in a 1 hour decrease in total overnight ETL job duration
- Migrated push notifications to AWS SNS, saving 98% in push-related costs.
- Developed various web pages, including the OSS page (ifttt.github.io)

AutoLotto

April - August 2015

Full Stack Software Engineer

- Refactored a Node.js backend to use ES2016 via Babel
- Wrote a cron-like system to automatically purchase Powerball tickets using Node.js (Cheerio) and Stripe

Bireosoft

June 2011 - August 2014

Freelance Java Developer

- Ran custom Minecraft mods on CentOS and Debian servers
- Reverse engineered obfuscated Java using a decompiler and reflection

🎓 EDUCATION

University of Texas at Austin

B.S, Computer Science & Mathematics

3.8 GPA, Graduating May 2018

☰ SELECTED SKILLS

Languages: Go, JavaScript, Ruby, Python, Java, PHP, SQL, HTML/CSS

Technologies: Unix/Linux, Rails, Node.js, React/Redux, Angular, Hadoop, AWS, Cassandra

Interests: Rock climbing, Emacs

🔧 ACTIVITIES/PROJECTS

HackDFW

Founder and organizer of the first and largest student hackathon in Dallas.

Hackers UTD

Vice President. Organized events for UTD's largest hackathon-centric club.

CyanTranslate

Powerful system-wide text manipulation on CyanogenMod; modified the Android OS.

Colleged.net

College textbook price comparison website built on MEAN. Received 2000 unique visitors in January 2015.

New Liberty

Modded Java Minecraft server using reverse-engineered code. Peaked at 3500 unique monthly players.