

# Ashton Grimbball

Software Engineer / Project Manager / Data Analyst

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## EXPERIENCE

### **Cryptic, Boston — Software Engineer**

Jan 2022 - Oct 2022

Designed, built, analyzed, and improved various cryptocurrency arbitrage algorithms.

- Arbitrage opportunities are highly competitive and often disappear in milliseconds.
- Discovered, prioritized, built, statistically analyzed, and improved various risk models & arbitrage opportunity types
- Profiled & optimized performance on various trading bots
  - Required a number of algorithmic innovations to get to the 10-20 microseconds execution time range

### **Google, Boston — Software Engineer**

Sep 2013 - Feb 2021

- SRE-SWE on the Reliable Tools (1.5 years)
  - Successfully led two teams through webapp development projects while working part-time.
- Google Photos Analytics (2 years)
  - Data Quality Lead
  - Worked on various data infrastructure and visualization projects on massive datasets (1B+ MAU, 84B log events / day).
  - Helped set team direction / quarterly goals.
- Google Play Newsstand – now Google News (2 years)
  - Analytics & content ingestion lead
  - Scale: 3B+ log events / day, 100M+ MAU, 1K+ publishers
  - Developed KPI, A/B testing experiment evaluator, & cohort analysis systems
  - Cross-functional experience working with publisher acct managers
- Full stack development for Google Play for Education (2 years)
  - Wrote / maintained full-stack webapp as part of a team (including payment processing code)

### **Facebook, Mountain View — Software Engineering Intern**

June 2013 - Sep 2013

Developed measurement & survey systems to do A/B testing and analysis for Facebook

## EDUCATION

University of Texas at Austin  
- BS in Electrical Engineering

Louisiana State University  
- 4.0 GPA in junior CompSci courses while at high school

## SKILLS

**Programming Languages:**  
Python, Java, C++, Go, Rust, Javascript, Typescript, SQL (various dialects), Protocol Buffers, Bazel

**Tools / Frameworks:**  
Linux, Git, Mercurial, Perforce, Bazel, Cargo (Rust), Guice (Java), Eclipse, VSCode, Map-Reduce / Flume (Google's MR), Angular CLI

## AWARDS

**8th place in USA Computing Olympiad** - Missed going to the International Olympiad in Informatics by one place!

**1st in UT Austin graduate programming contest (many competitors)** - as an undergrad

**1st in high school state programming contest**

**Repeatedly top-5 in high school state math contest**