

Stephen Pinkerton

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Experience

Cloudflare

San Francisco, CA & Austin, TX

Product Strategy Intern

Summer 2018

- Strategy + product management for new Cloudflare products.

Monzo Bank

London, U.K.

Engineering Intern

July-September 2017

- Built and tested core backend services powering chat and email support for an internal CRM (Go, Cassandra).
- Created frontend features for and fixed bugs in tools used to assess customers' credibility (ES6, React, Redux).
- Designed and began building a stream-based data pipeline to improve analytics data consistency (Apache Beam; Google Dataflow, BigQuery, Pub/Sub; NSQ).

Google (Nest Labs)

Palo Alto, CA

Software Engineering Intern

June-September 2016

- Extensively researched memory usage in the Nest Guard product from both a data science perspective (pandas, BigQuery, SQL) and from an engineering one, ultimately patching a number of memory leaks (C++).
- Reworked peripheral initialization in several embedded products, saving ~6 kB of flash in the Nest Detect alone.
- Completed a highly-demanded feature for "sleepy" real-time devices to sync time with their parent routers, empowering future embedded algorithm development.

Square

San Francisco, CA

Embedded Software Engineering Intern

June-August 2015

- Selected to be a KPCB Engineering Fellow (~85 students selected among 2500 applicants, kpcbfellows.com).
- Developed firmware to control the physical UI of a contactless credit card reader (C, RTOS).
- Demoed project successfully to senior leadership, and it now runs on all production devices.

Square

San Francisco, CA

Software Engineering Intern

June-August 2014

- Developed features for internal products used around the company for guest registration, entering external NDAs, accessing the employee directory, and using remote offices (Rails, Javascript, CSS).
- Built business intelligence dashboards to enable other departments to better understand their data.

Facebook

Menlo Park, CA

Client Platform Engineering Intern

June 2013 - May 2014

- Iteratively rebuilt company-wide Mac provisioning tools to execute faster and more reliably.
- Created new automation tools based on pain points expressed by help desk employees.
- Improved testing and debugging infrastructure, resulting in a decrease of faulty code deploys.
- Some work has been open-sourced at github.com/facebook/it-cpe and is used extensively by other IT orgs.

Projects

- **Index fund analysis** - Scraped, cleaned, and analyzed historical ETF data (Go, SQL, Excel).
- **Crawler** - Concurrent single-domain web crawler in Go (github.com/pinkerton/crawler).
- **Mutex** - Spinlock-based mutex in C and x86 assembly (github.com/pinkerton/locks).
- **Scrubbot** - Time-tracking message bot (Go, Python/Django).
- **Ignatius** - A museum-style kiosk application that displays historical records and promotional materials.

Education

University of California Santa Cruz

Santa Cruz, CA

B.S. Computer Science

2017- March 2019

- Notable coursework in Artificial Intelligence & Machine Learning, Natural Language Processing, Database Internals, Computer Architecture, and Product Design Research.