

PATRICK TRIEST

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EMPLOYMENT EXPERIENCE

SocialCops — *Senior Full Stack Engineer*
DECEMBER 2015 - AUGUST 2017

Frontend Web

Led 5 person team (two engineers, two designers, one content writer) in building redesigned company website within a four-week deadline.

Data Science

Cleaned and combined multiple disparate datasets to create a global geographic entity recognition engine using Python (SciPy stack) and ElasticSearch.

Android

Developed, tested, and internally deployed a plug-and-play Android library for interfacing with external fingerprint scanning hardware.

Backend/DevOps

Architected, built, tested, and deployed a horizontally scalable, high-security user authentication service using Node.js, MongoDB, Redis, and Docker.

UI/UX Design

Created wireframes and prototypes of a data visualization Android app for use by the *Bill & Melinda Gates Foundation* in underdeveloped areas of Bihar, India.

Internet Of Things

Designed and built low-cost portable air-pollution sensors with GPS and SIM connectivity, and deployed them in vehicles on the streets of Delhi, India.

ENTREPRENEURIAL EXPERIENCE

Chipper Labs — *CTO & Backend Engineer*
AUGUST 2017 - PRESENT

- Build backend infrastructure for micro-remittance (international money transfer) application using Node.js, Redis, and PostgreSQL.
- Play major role in high-level decision making for small (5 member) team.
- Research and experiment with various blockchain-based payment technologies.
- Configure security, unit testing, and scalable hosting for the application.

Critical Ideas Inc. — *Co-Founder & Android Engineer*
FEBRUARY 2014 - PRESENT

- Build Android app for encrypted, self-destructing voice messaging service.
- Work with two other entrepreneurs to build a business plan and optimize application features and design for West African audiences.

Grinnell AppDev — *Lead Of Android Development*
JANUARY 2013 - MAY 2015

- Co-led student mobile application development group, working on tasks such as recruitment, training, PR, budgeting, and high-level strategy.
- Expanded team from 8 to 30 active members during 2 years of leadership.
- Led Android engineering team in building and maintaining 5 native apps.
- Established mentor-based education program for Android students.
- Raised \$150,000 in competitive grant funding.

EDUCATION

Grinnell College — *Computer Science Major, Neuroscience Concentration*
CLASS OF 2015

Newton North High School — *Engineering Captain, Science Team*
CLASS OF 2011

FEATURED ARTICLES & OPEN-SOURCE PROJECTS

From blog.patricktriest.com

Async/Await Will Make Your Code Simpler

Featured in Javascript Weekly's "The Most Popular Javascript Links of 2017"

Analyzing Cryptocurrency Markets Using Python

Top Google search result for "Cryptocurrency Data Analysis" (as of January 2018)

Using Python To Analyze 60 Million US Police Stops

Top Python Article Of The Month - Mybridge, November 2017

You Should Learn Regex

Top post on Hacker News upon release

Atlas of Thrones

100+ Stars on Github

An Introduction To Utilizing Public-Key Cryptography In Javascript Applications

Top Vue.js Article Of The Month - Mybridge, December 2017

INTERNSHIPS

Nodal Industries *Summer 2015*
500 Startups, Mountain View, CA

- Worked on embedded Linux firmware for malware filtering network security IoT device.
- Architected, coded, and deployed network traffic monitor web app using Angular.js and Node.js.

Hecuba Group *Summer 2014*
MIT Global Founders' Skills Accelerator, Cambridge, MA

- Worked on medtech Android application to connect rural health volunteers with urban doctors.
- Optimized application features and UI design for users in rural Ghana.