

Conor Stuart-Roe

SOFTWARE ENGINEER

☎ (+1) 828-785-0136 | ✉ conorstuartroe@gmail.com | 🏠 www.conorstuartroe.com | 📷 cstuartroe | 🌐 conorstuartroe

Education

Haverford College

B.S. IN COMPUTER SCIENCE AND LINGUISTICS, MINOR IN MATHEMATICS

Philadelphia, PA

August 2016 - May 2020

- Graduated *magna cum laude* (GPA: 3.94)
- Submitted a combined thesis to the CS and Linguistics departments on transfer learning of natural language morphology

Skills

DevOps AWS (EC2, S3, DynamoDB, Lambda, EMR, IAM), Docker, Vagrant, Terraform, Jenkins, CircleCI
Back-end Rails, Django, Flask, PostgreSQL, MongoDB, Redis
Front-end React, Webpack, SASS/SCSS, Bootstrap
Languages Python, JavaScript/TypeScript, Ruby, C++, Go, Rust

Experience

Academia.edu

San Francisco/Remote

FULL-STACK SOFTWARE ENGINEER

July 2020-Present

- Academia.edu's stack is Ruby on Rails, React (with TypeScript), and Postgres
- My role is truly full-stack - I have worked on projects ranging from data engineering to page redesigns according to business needs
- A large proportion of my work has pertained to the payments system, including writing a webhook to handle Stripe events, building a new datastore of historical exchange rates, and converting our complex frontend payments code from JavaScript to fully annotated TypeScript
- I spend 10-20% of my engineering time with the cybersecurity guild, a group of engineers that spend time away from their normal teams to work on dependency updates, credentials safety, and site security
- I have been giving tech screens for Academia.edu since early 2021 and have also onboarded two new hires

Kyrium Group

Remote

LEAD DEVELOPER

August 2018-January 2020

- The Kyrium Group was a small PR and design consultancy that operated from 2016 to 2020
- As Lead Developer, I supported the larger PR and marketing operation by building bespoke web applications for clients, ranging from static sites to one of our flagship products - Fleet Sheets, an aircraft sales aggregator that sold as a SaaS product to aircraft brokers
- I did all technical design and planning and led one other engineer in implementation
- Almost all of our applications were built on a Django + Postgres stack and deployed on DigitalOcean

ProPublica

New York, NY

AUDIENCE & CONTENT ANALYTICS INTERN

June-August 2019

- Zero to rollout on a Slack chatbot which allows audience team members to build custom lists and graphs on the fly
- Written in Python, deployed in a Docker container on AWS EC2
- Aggregates data from Google Analytics and social media via APIs, as well as ProPublica's CMS data stored in MySQL

Honors & Awards

2020 **Member**, Phi Beta Kappa
2020 **Graduated with Honors**, Haverford Computer Science Department
2020 **Invitee**, Hack Lodge W20
2019 **Fellow**, HackNY
2015 **Silver Medal**, 13th International Linguistics Olympiad

Menlo Park, CA

New York, NY

Blagoevgrad, Bulgaria

Projects

Teko

December 2018-Present

<https://github.com/cstuartroe/teko>

- A statically typed scripting language similar to TypeScript, implemented in Go

Biota Or Nada

January 2020

<https://github.com/cstuartroe/cellular-automata>

- A Hack Lodge (hacklodge.org) project, this is a website that uses reinforcement learning to find interesting rulesets for cellular automata