

# Dylan Finn

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## EDUCATION

Dominican University of California  
*B.S. Applied Computer Science (Aug 2020)*

## HIGHLIGHTS

- Over 5 years programming experience with ambitious personal and professional projects, 2 years hands-on
- Wrote pro-bono code for a nonprofit
- ...and for an international omnichannel ad platform reaching billions of impressions

## CORE SKILLS SUMMARY

Go, C++, Python, Java, React, Javascript, Scala, Bash, MongoDB, MySQL, PostgreSQL, Git, Docker, Kubernetes, HTML, Typescript, JSX, Node.js, Express.js, Flask, Django, Microservices, Agile Development, Scrum, Nginx, Data Analysis, Cybersecurity, API development, OOP, functional programming, TDD, Continuous Integration, Continuous Delivery, Jenkins, Pair Programming

## TECHNICAL EXPERIENCE

Verve Group Remote  
*Software Engineer I, Backend* February 2022 - September 2023

- **Scala, Golang, and Java, Jenkins, Datadog, Kafka and Avro** (to name a few) in the **Scrum** methodology to write production code and tests for an ad platform with millions of users a day as an engineer on the backend team
- Met product needs with soft skills, comprehensive communication, and problem solving across projects spanning months
- Gained extensive metric, test, and statistical analytics experience, both research and on call

Real Options for City Kids (R.O.C.K.) San Francisco, California  
*Pro-Bono Software Engineer* December 2020 - March 2021

- Autonomously designed and built a mass emailing platform, desktop GUI, and custom features with minimal overhead with **Python** and Rich MIME text
- Still in use by the nonprofit on email lists with 2,000+ recipients, saving countless hours in manual labor

## BACKGROUND AND INTERNSHIP EXPERIENCE

Dominican University of California San Francisco, California  
*Curriculum Developer and Teaching Assistant* August 2018 - May 2020

- Generated high quality curriculum surrounding advanced computer science topics
- Execute design decisions, revised after review Curriculum written during my employment utilized in over 6 separate courses

Leahy Center for Digital Investigation Burlington, Vermont  
*Cybersecurity Technical Intern* Sep 2017 - Jan 2018

- Analyzed data and produced research results while also learning how clientele requests are managed and executed
- 120 total hours, completed 2 research assignments surrounding cyber-security statistical analysis beyond requirements

## SOFTWARE PROJECTS

Personal Site

- Frontend focused landing and portfolio page, deployed with Docker and nginx, capable of https
- Due to domain registrar issues this is currently hosted at <http://209.38.142.152:5000/>

Castway

- Lead a team to deploy a web conferencing solution
- Deployed to industry best practices with Docker, Nginx, and Digital Ocean at [castaway.app](http://castaway.app)

CodeSnatch

- Built a dynamic website using agile development, which converts pictures of executable code to text and runs it
- Containerized using Docker and Compose, with an Nginx web server reverse proxy/load balancer

Salvo

- Developed and optimized a high performance asynchronous port scanner in Golang
- 1200 ports/s (+/- depending on hardware), detection avoidance, automatic adjustment to host hardware memory limit