Julio Ballista

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EDUCATION

Stanford University *GPA: 3.8*
B.S. Candidate Computer Science, Class of 2022 Track: Systems

Coursework: Operating Systems, Compilers, Programming Abstractions in C++, Computer Organization and Systems, Principles of Computer Systems, Multivariable Calculus, Teaching Computer Science.

EXPERIENCE

Forward-Deployed Engineer Intern. *Palantir Technologies* *Jun 2020 – Dec 2020*
Jun 2021 – Sep 2021

- Designed and implemented **Python** script to backup **Elasticsearch** indices from one cluster to another, aiding in customer disaster recovery exercise.
- Implemented Health check for **Oracle DataGuard** in **Java** which reduced the need for a **Jenkins** jobs across the company.
- Built **Java** proxy to ingest customer data, and redistribute data to multiple web-socket destinations, enabling new workflows for the customer.
- Supported two microservice based, on-premise stacks, and supported on-call rotations to firefight production environments.

Data Science Intern. *Forbes Media LLC.* *Jun 2018 - Sep 2018*

- Designed back-end for web-application that would find cryptocurrencies in an input text, and display graphs of their current price using **Python** and **Docker.** (Link)
- Implemented web-application with a machine learning model using **TensorFlow** that would suggest to writers to write about related cryptocurrencies. (Link)
- Both projects were pushed to production and are being used by Forbes writers.

Project Management Intern. *AMC Networks.* *Jun 2019 – Sep 2019*

- Exercised design principles to design a better login process for AMC.com users, estimated to increase logins by 23%.
- Led Artificial Intelligence initiative in an intern group project; created design documents detailing how Python can be used for a mobile, universal recommendation algorithm.

LEADERSHIP

Teaching Assistant (CS198). *Stanford University.* *Sep 2019 – Present*

- Teach a section of 7-10 students for 'Programming Methodologies'. (CS106A)
- Mentor students, grade assignments, and lead office hours for 2 hours a week.

Co-Lecturer *Stanford University.* *Mar 2021 – Jun 2021*

- Co-lectured "Safety in Systems Programming", a class about systems security in the context of **Rust**, its ownership model, and how it enables memory and thread safety. (Link)
- Lectured and designed slides, lecture examples, and coding assignments for students.

Head Facilitator. *MIT Office of Engineering Outreach Programs - OEOP***.** *Jun 2019 – Jan 2020*

- Lead and coordinate event planning, webinars, and programming for high-achieving, underrepresented STEM high schoolers in MIT Online Science, Technology, and Engineering Community (MOSTEC).
- Piloted new website design to provide students with more outlets to communicate with staff members.

SKILLS

Highly skilled and proficient in: *Python, C, C++, UNIX, Java, Rust, x86 assembly, SQL.*
Proficient in: HTML, JavaScript, CSS, Docker, Jira, Assembly, AWS.