# Matthew Craig

matt @ <mattcraig.tech> • linkedin.com/in/mattcraig-tech • github.com/0x65-e

## EXPERIENCE

**Software Engineering Intern** June 2022 - Present
Palantir Technologies | Palo Alto, CA

- Integrated a web map tile server written in Java with commercial tile server implementations to present a unified API for accessing customer tile resources in classified and unclassified environments
- Created a proof-of-concept asynchronous Typescript language server extension for Visual Studio Code using Rust
- Developed code in a CI/CD environment and released directly to customer deployments within a week

**Software Engineering Intern III** June 2021 - Dec 2021
The Aerospace Corporation | Remote

- Developed an autonomous agent using C#/.NET to simulate human behavior to evaluate accuracy of host-based machine learning anomaly detection
- Achieved 80% unit test coverage for machine learning deployment in Tensorflow/Keras using PyUnit
- Designed and ran attack/defense Capture-The-Flag competition for 10 cybersecurity interns

**Software Engineering Intern II** June 2020 - May 2021
The Aerospace Corporation | Remote

- Led intern development team improving Android penetration testing app by integrating new tools for eavesdropping and exploitation and updating compliance with Android 10 security restrictions
- Implemented a network traffic generator to provide a realistic baseline for machine learning anomaly detection
- Investigated hardware and software solutions to intercept and monitor USB traffic for malicious activity on sensitive customer systems

**Software Engineering Intern I** June 2019 - May 2020
The Aerospace Corporation | El Segundo, CA

- Led intern development team to create an Android penetration testing app including network scanning, packet capture, and data exfiltration. Supported multithreaded processes.
- Developed server using Python to parse Splunk alert webhooks and interface with hardware visualization system
- Designed an embedded security model using containerization to mitigate cyber threats to satellites

## PROJECTS

**Kokomo** Aug 2020 - Present

- Competitor for the Robocode programming game written in Java. Uses online machine learning methods to adapt to opponent's movement pattern. Ranked in the top 10% of competitors.

**Tessera** June 2019 - Sep 2021

- Android dice calculator for tabletop games implementing common custom dice formulas for different systems

## EDUCATION

**University of California, Los Angeles (UCLA)** | B.S. in Computer Science, B.A. in Economics Expected June 2023

- GPA: 3.975/4.0
- Minor in Data Science Engineering
- Dean's Honors List, member of Upsilon Pi Epsilon, Tau Beta Pi, and Mortar Board honor societies

## PROGRAMMING LANGUAGES

C++ | Python | Java | C | Rust | OCaml | Lisp

## LIBRARIES AND FRAMEWORKS

OpenMP | Google Guava | NumPy | PyUnit | Pandas | sklearn | TensorFlow | Keras | Jupyter Notebook | Seaborn