Christopher Yun

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EDUCATION

University of Maryland, College Park   **Aug. 2021 - May 2025**
Bachelors of Science, Computer Science
- Relevant Courses: Discrete Structures, Computer Systems, Algorithms and Data Structures, Organization of Programming Languages.
- Presidential Scholarship Recipient

WORK EXPERIENCE

Brivo Inc.   **May 2022 – Aug. 2022**
Backend Software Engineering Internship   Bethesda, MD
- Optimized a **GraphQL** backend written in **NodeJS** and hosted through **AWS Lambda** by refactoring the project structure and adding backwards compatibility with older applications.
- Designed a **Typescript** testing harness for a **GraphQL** backend with the testing framework **Vitest** that replaced all previous testing infrastructure and allowed for fast and modular implementation of new tests.

CACI International Inc.   **May 2019 – Aug. 2020**
Summer Software Engineering Internship   Herndon, VA
- Developed a desktop application using **Ruby** in tandem with Ball Aerospace's COSMOS framework to monitor telemetry and control various space system hardware.
- Created a CLI tool with **Python** that utilized a variety of **UDP** and **TCP** connections to test and interface a series of sensors and hardware systems to ensure proper functionality in space.
- Collaborated with a team of engineers to design and test various implementations of Kalman filter algorithms in **MATLAB** to simulate and predict time offset and drift between a constellation of satellites.

PROJECTS

Vesta Technologies LLC   **Aug. 2020 – Feb. 2021**
Sneaker Scalping Software Startup
- Led a team of three developers to create a SaaS desktop application that utilized **HTTP** requests to automate various ecommerce checkout processes and acquire highly limited and sought after items.
- Designed robust backend infrastructure using **MySQL**, **Redis**, various **RESTful API** frameworks in **Golang**, and **AWS** to handle the application's authentication, data collection, and other server side systems.
- Reverse engineered various **JavaScript** web application firewalls such as **Akamai's Bot Manager**, **DataDome**, and **Google's Recaptcha** V2 and V3 to develop proprietary solutions capable of bypassing these security systems.
- Used in-house pen-testing tools to find zero day vulnerabilities used to optimize our application, and distributed these vulnerabilities to other sneaker bot companies for a total profit of over **$20,000**.
- Enabled our user base of 50 customers to purchase over 2,500 items, equating to approximately **$500,000** spent and a cumulative profit of almost **$150,000**.

Projectile Intercepting Nerf Turret   **Mar. 2022 – Mar. 2022**
Bitcamp 2022 Project
- Worked with a team of 4 engineers to create a Nerf turret capable of shooting thrown projectiles out of the sky which won multiple awards including the Major League Hacking Special Recognition Award.
- Utilized **OpenCV** to locate the projectiles' midair and developed several quadratic regression models to predict the projectiles' speed, acceleration, and trajectory.

SKILLS & INTERESTS

- **Skills:** Python, Golang, Java, TypeScript, NodeJS, Matlab, GraphQL, ReactJS, ElectronJS, HTML/CSS, Tailwind, Redis, MySQL, MongoDB, Git, Github, AWS, TensorFlow