Dog Cat

github.com/dogcat | linkedin.com/in/dogcat | dog@umd.edu

EDUCATION

University of Maryland - College Park | *College Park, MD*   May 2026
- Intended B.S in Computer Science

EXPERIENCE

XXYY Software LLC | *Founder and CEO*   Jan 2022 - Present
- Recently launched a software as a service startup which automates purchasing discounted items on e-commerce sites. Currently grossing $34k in monthly recurring revenue and has saved customers $22.2 million to date.
- Led the full-stack development of our desktop application and web services in Node.js, Typescript, and Electron, automating hundreds of thousands of HTTP requests daily to deliver real time pricing data.

XXYYZZ | *Software Engineering Intern*   Jun 2022 - Aug 2022
- Developed an internal tool to ensure all laptops meet backup service level agreements. Queried information in SQL and fetched data using Javascript from various REST APIs
- Worked with XXYYZZ Cloud services, including VM Provisioning and Report Generation, and used Microsoft Azure APIs to automatically exclude terminated employees from outage reports, saving 55% of manual review time

LEADERSHIP

First Robotics Competition (Team 1234) | *Programming Mentor*   Jun 2018 - Present
- Created a system in Java to generate and autonomously follow quintic spline paths, and used computer vision (OpenCV) to make the robot align with and shoot into a goal.
- Worked on the software for 4 competitive robots, mentoring students through the creation of robots

Junior Achievement of XXYY XXYY Student Committee| *Vice President*   Sep 2018 - Aug 2021
- Helped lead HackJA, a career focused Hackathon aimed towards introducing 200+ students to the power of entrepreneurship and technology. Managed event logistics, website, registration and marketing. Hackathon was the primary part of NextGen tech series sponsored by ADP, Verizon, EY, Johnson & Johnson, and Bayer Fund
- Taught workshops to high school students at HackJA, and middle school students at XXXX Middle School.

PROJECTS

TLS Mimicry API   2022
- Purpose built for privacy protection. Proxies requests using a fork of go's networking library (fhttp) and my fork of cclient (TLS fingerprint library) to prevent fingerprinting at the TLS stack level through browser mimicry.
- Built with Golang. Supports Mimicry of Chrome, Firefox, and Safari iOS. Also mimics header order, HTTP/2 connection settings & server push, user agent

Instacart Monitor   Mar 2020
- Notifies you when grocery delivery is available. Built for an immunocompromised family member in March 2020 and expanded to public notifications for people in my town.
- Built with Node.js. Started using Puppeteer headless browsers and delivering Discord notifications, switched to checking availability through requests to a REST API and delivering SMS notifications with Twillio.

AWARDS & ACHIEVEMENTS

PennApps (University of Pennsylvania Hackathon), 2nd Place   September 2021
Sonar (Social Networking Application), Bug Bounty   August 2020
National Merit Finalist & 1550 SAT & AP Scholar with Distinction   September 2019 - September 2020

SKILLS

Languages: TypeScript, Node.js, Golang, Python, Java, HTML/CSS/JS, C++, SQL, Rust, Bash,
Favorite Libraries/DBs:: Express, Requests, OpenCV, NumPy, mySQL, MongoDB, React, Vue, Tensorflow, Keras
Favorite Tools: Git, Github Actions, CircleCI, Slack, Fusion 360, Visual Studio Code, Goland, Wordpress, LaTeX
Interests: Graphic Design, European History, Hip-Hop Music Production, Violin, Consumer Tech