## Phone: (630) 200-2504 Email: camerondart@protonmail.com Github: skamdart LinkedIn: cdart2

## Education

#### Bachelors of Science in Mathematics and Computer Science

May 2018

University of Illinois at Urbana-Champaign, Champaign, IL

#### Technical Skills

Haskell | Rust | Nix | Zig | NixOS | C | C++ | Bash | Python | MATLAB | GDB/LLDB | RF Testing

# Work Experience

#### Anduril Industries - Engineer

May 2019 - March 2024

Orange County, CA

- Lead software engineer for an eight-figure counter unmanned aerial systems (cUAS) electronic warfare (EW) program
- Increased battery life of sentry tower by 950% by optimizing radar signal processing
- Authored core Rust libraries and build infrastructure supporting cross-compilation that runs on all products

# Fair Financial Corp - Software Engineer in Data Engineering

May 2018 - May 2019

Santa Monica, CA

- Saved 40 hours/week and enabled the company to pledge \$2,000,000+ of assets on a biweekly basis with data pipelines
- Spearheaded Publisher/Subscriber architectures for asynchronous communication in a distributed environment
- On-boarded and mentored mid-level engineer on best practices in Python

## Sprite Robotics - Software Engineer

March 2018 - June 2018

Remote

- Implemented RESTful Flask (Python) services for firmware distribution process using AWS EC2 and S3
- Setup continuous integration (CI) using Gitlab-CI to automate a suite of pytest tests
- Created initial star schema data model in SQL for customer, firmware, and hardware data

# Laboratory of Computational Plasma Physics - Undergraduate Researcher

**Summer 2017** 

Champaign, IL

- Integrated C-based unit tests with Python integration tests for petascale Ordinary Differential Equation (ODE) solver
- Implemented statistical algorithms such as reservoir sampling in C
- Converted GNU Makefile to CMake build system

### Peach Academics - Software Developer

Fall 2016 - Spring 2017

Remote

- Collaborated remotely to build a peer-to-peer tutoring platform using Django, NodeJS, AngularJS, and Amazon Web Services
- Designed and managed distributed applications with a service-oriented architecture
- Configured NGINX as a reverse proxy for Django, Node, and websocket servers with LetsEncrypt SSL certificates

# Publications and Patents

- Modular system for detecting, tracking and transmitting to identified objects (2024202362)
- Abstract: CP11.00025: Progress on the Development of the hPIC Particle-in-Cell Code

# Research Experience

#### Illinois Geometry Lab - P415X

Spring 2016, Spring 2017

Prof Cary Malkewicz and Prof Jenya Sapir

- Created games that provide visual intuition on linear algebra topics without a formal, mathematical introduction
- Used in the teaching of linear transformations, non-standard bases, and eigenvectors to classes of 400+ undergraduates
- Managed a group of undergrad developers and gave weekly presentations to professors and graduate students.