

Aidan Glickman

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EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Bachelors of Science in Computer Science; GPA: 3.97/4.00

Aug 2021 - May 2023 (Expected)

Selected Courses: Algorithms, Numerical Methods, System Programming, Probability & Stats for CS, Combinatorics, Languages & Compilers

Bergen County Academies

Hackensack, NJ

High School Diploma in Computer Science; GPA: 3.85/4.00

September 2016 - June 2020

Involvement: hackBCA (Director), Cybersecurity Club (Founder), Competitive Programming, Varsity Lacrosse, National Honor Society

SELECTED SKILLS

Languages: Python, C++, Golang, Rust, C, Ocaml...

Tools: Kubernetes, Docker, NumPy, OpenCV...

Subject Areas: Algorithms & Optimization, Parallel Computing, Computer Vision...

Spoken Languages: English (Native), Hebrew (Native), Spanish (Intermediate), Russian (Basic)

RECENT EXPERIENCE

IMC Trading

Chicago, IL

Quantitative Trader

August 2023-

Viam Robotics

New York, NY

Computer Vision Intern

May 2022 - Aug 2022

Pointcloud Data Optimization: Rewrote 90% of codebase having to do with pointcloud storage, processing and optimization. Wrote novel data structures for storage resulting in exponential speedups of processing tasks at no memory cost. Implemented state-of-the-art algorithms for pointcloud merging optimized for mobile robotics.

Foosbot: Developed a computer vision system for a foosball playing robot that can track the ball and players in real time. Optimized system using local processing and parallelization to achieve live framerates on a Raspberry Pi 4. Made use of other hardware sensors as priors to reinforce inferences with a Kalman filter.

Misc.: Outlined hardware integration pipeline for Microsoft Kinect cameras. Presented multiple smaller projects at company-wide showcases.

Autofleet

Tel Aviv, Israel

Full Stack Engineer

September 2020 - October 2020

Fleet Management System: Contributed to a platform for pooled vehicle rerouting and route matching.

Tesla Integration: Reverse engineered Tesla API to integrate cars into the platform.

OWAL

Brooklyn, NY

Computer Vision Intern

August 2019 - May 2020

Anomaly Detection: Architected and delivered full stack platform to detect anomalies in live video streams including faulty signals, obstructions, or unexpected views using machine learning and classical computer vision techniques. Optimized system to run across thousands of live cameras.

Server Management: Built local servers to be used for internal machine learning training and testing. Set up load balancing and container management systems to ensure high availability.

ACADEMIC RESEARCH

KIMLAB

Champaign, IL

Researcher - Professor Joohyung Kim

August 2022 - May 2023

SLAM for Mobile Robotics: Building simultaneous localization and mapping (SLAM) system for a mobile robot integrated with PAPRAS (Plug and Play Robotic Arm System).

Integration: Writing general robotics code to integrate various robotics projects and make them available.

Algorithms & Theory Education

Champaign, IL

Researcher - Professor Jeff Erickson

August 2022 - May 2023

Models of Computation Intuition: Creating set of tools and graph based visualizations to aid students in gaining an intuitive understanding of models of computation. Specific focus on optimizations for Regular Expressions and NFAs.

PrairieLearn for CS 374: Working on codebase for PrairieLearn, an open source platform for online assignments.

RECOGNITION & AWARDS

- University of Illinois Grainger School of Engineering Dean's List (All Semesters), Tau Beta Pi Honor Society
- Bergen County Academies Computer Science Award (2020)
- 36 Composite on ACT, Top 0.1% (2018)