Aidan Glickman

aidan@aidanglickman.com

github.com/aidanglickman

linkedin.com/in/aidanglickman

Champaign, IL

Hackensack, NJ

Education

University of Illinois Urbana-Champaign

Bachelors of Science in Computer Science; GPA: 3.97/4.00 Selected Courses: Algorithms, Numerical Methods, System Programming, Probability & Statistics, Combinatorics, Formal Models of Computation

Bergen County Academies

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)

RECENT EXPERIENCE

IMC Trading

Quantitative Trader

Viam Robotics

Computer Vision Intern

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

Full Stack Engineer

Tel Aviv, Israel September 2020 - October 2020

August 2019 - May 2020

Brooklyn, NY

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

Computer Vision Inten

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

Researcher - Professor Joohyung Kim

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

Researcher - Professor Jeff Erickson

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. **Auto-graded Scaffolding Exercises For Theoretical Computer Science**: Erickson, Jeff; Xia, Jason; Robson, Eliot Wong et al. In: ASEE Annual Conference and Exposition, Conference Proceedings, 25.06.2023.

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)

Champaign, IL August 2022 - May 2023

Champaign, IL

August 2022 - May 2023

Chicago, IL August 2023-New York, NY

May 2022 - Aug 2022