

LIAM PREVELIGE

Easton, CT · liam.r.prevelige.23@dartmouth.edu · (203) 400-4580
<https://github.com/liam-prevelige/> · <https://linkedin.com/in/liam-prevelige/>

EDUCATION

Dartmouth College

Hanover, NH

B.A. Computer Science and Economics *GPA: 3.8*

Sep 2019 - Jun 2023

Relevant Coursework: Software Design & Implementation, Algorithms, Machine Learning & Statistics, Smartphone Programming, Architecture, Discrete Math in CS, Foundations of Applied CS, Multirobot Systems

TECHNICAL COMPETENCIES

Programming Languages: Java, Python, JavaScript, C, CSS, HTML, y86 Assembly
Frameworks & Technologies: Android, Docker, ROS, Gazebo, Stage, Firebase, MATLAB, Logisim

RELEVANT PROJECTS

Presell

Software Developer

- Individually developed e-commerce platform using Android, Java, JavaScript, Stripe Connect, and Google Firebase for the sale of custom merchandise on a user-friendly marketplace.
- Android app enables adjustable time-dependent pricing, sales listings in three steps, design editing tools, secure payments with Stripe API, and safe asynchronous communication to a JavaScript server.

Autonomous Multirobot Patrol System

Researcher, Software Developer

- Designed supervised machine learning algorithm & framework for optimizing detection of robots escaping from confined area, communicating algorithm & experimental results in formal research paper.
- Improved detection up to 400% over naive algorithm in simulation using Python, ROS, and Stage.

Nuggets

Software Developer

- Managed team of three using Scrum framework, C, and Unix development tools to create the 'Nuggets' game server, allowing up to 26 players to compete to collect gold in visibility-limited maps.

Pikr

Software Developer

- Created social media Android app giving users access to a group voting system, with features including a public & private feed, post creation tools with images and text, polls, friends list, and filters.

RELEVANT EXPERIENCE

Dartmouth Reality and Robotics Lab

Hanover, NH

Research Assistant

Sep 2020 - Present

- Develop routing software for a multi-robot system using ROS, Docker, Python, and simulated data to compare bio-markers between simulation & sensor inputs, enabling early detection of toxic algae blooms.
- Collaborate with a network of 60 professors & PhD students across 6 universities & 4 states to improve the algae detection system and explore new publications on modern multi-robot systems research.

DataCrunch Solutions

Remote

Founder, Software Developer

Sep 2020 - Present

- Create software with team of three to improve corporate efficiency, with projects including using Python, Pandas, & HTTP requests to complete months of documentation for government contracts in minutes and using Python, Selenium, Aliases, & HTTP requests to connect employees at Connect Healthcare Collaboration to thousands of customers in seconds.

Plug and Play Tech Center

Remote

Investment Intern

Oct 2021 - Present

- Analyze 25 software-based startups with international students from 70 universities for 5 hours per week, providing input on tech & funding to investment committee of world's largest startup accelerator.

LEADERSHIP & AWARDS

Magnuson Center for Entrepreneurship

Hanover, NH

Chair, Student Leadership Board

Jan 2020 - Present

- Devote 10 hours per week to managing Dartmouth's entrepreneurial programming and startup support.

Chi Gamma Epsilon

Hanover, NH

Treasurer

Jun 2020 - Present

- Actively manage \$450,000 in annual income.

Venture Capital Investment Competition

Boston, MA

Dartmouth Undergraduate Investment Team

Nov 2019 - Feb 2021

- Received first place and \$1,000 prize in 2020 New England Regional Competition.