LIAM PREVELIGE

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

EDUCATION

Dartmouth College   Hanover, NH
B.A. Computer Science and Economics *GPA: 3.8*   Sep 2019 - Jun 2023
Relevant Courses: Software Design & Implementation, Algorithms, Machine Learning & Statistical Analysis,
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 EXPERIENCE

Dartmouth Reality and Robotics Lab   Hanover, NH
Research Assistant   Sep 2020 - Present
- Develop routing software for a multirobot 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 multirobot 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, & session-based 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.

RELEVANT PROJECTS

PreSell
Software Developer
- Individually developed e-commerce platform using Android, Java, XML, JavaScript, Stripe, Glide & Firebase, with 40 Java classes & 46 menus, for sale of custom merchandise on user-friendly marketplace.
- Android app enables adjustable time-dependent pricing, sales listings in three steps, design editing tools, secure payments with Stripe Connect, 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.

Y86 Simulator
Software Developer
- Created microarchitecture for Y86 in Logisim with Harvard architecture; designed & wired arithmetic logic unit, register reader/writer, finite state machine, microsequencer, I/O, RAM, & microinstructions.

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 and facilitate key decisions as one of ten voting executives.

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.