Ari Porad

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SKILLS C++ Python Robotics MATLAB ROS Git JavaScript Machine Learning Unit Testing Computer Vision

EDUCATION

Olin College of Engineering — *May 2024*

BACHELOR OF SCIENCE IN ENGINEERING: ROBOTICS — 3.95 GPA

- Recipient of a half-tuition merit scholarship
- Elected sophomore student government representative

Relevant Coursework:

- Computational Robotics (Independent Study)
  Final Project: Built a visual odometry system from scratch
- Fundamentals of Artificial Intelligence *at Brandeis University*
- Data Structures & Algorithms

COMMERCIAL APPS

Castbridge — *https://castbridge.io*

FOUNDER, CEO & SOLE DEVELOPER

- Castbridge connects incompatible home audio ecosystems; enables AirPlay streaming from Mac & iOS to Chromecasts
- Independently designed, developed, released, and marketed
- Hundreds of paying users in dozens of countries
- Paid MacOS app written in Javascript and Electron

Kinoki — *Retired*

FOUNDER, CEO & SOLE DEVELOPER

- Free-to-play educational iOS math game for practicing algebra and problem-solving skills
- Published to the App Store
- Hundreds of users with 92% 5-star reviews
- iOS app written in Objective-C and UIKit

INTERNSHIPS & WORK EXPERIENCE

Skydio — *Summer 2022*

AUTONOMY PRODUCTS ENGINEERING INTERN (3D SCAN)

- Skydio builds best-in-class autonomous drones for inspection, situational awareness, and cinematography
- Skydio 3D Scan autonomously captures millimeter-scale models of structures like bridges, buildings, and cell towers
- Optimized inspection and path planning algorithms for performance and enhanced user experience
- Additional project currently under NDA

Onshape (a PTC company) — *Summer 2021*

ARCHITECTURE/FEATURESCRIPT SOFTWARE ENGINEERING INTERN

- Onshape is a leading cloud-first computer aided design (CAD) platform for mechanical engineers
- Implemented optimizations to the FeatureScript programming language, which enables users to extend Onshape and automate tedious design workflows
- Improved FeatureScript performance by up to 50x
- Developed custom FeatureScript for customer

Microsoft — *Summer 2018 & 2019*

PLATFORM SOFTWARE ENGINEERING INTERN — SUMMER 2019

- Designed and built core parts of an unreleased next-generation Microsoft app platform in TypeScript and React
- Platform powered hundreds of thousands of active users

WEB APPLICATION TESTING INTERN — SUMMER 2018

- Developed UI and unit-testing infrastructure for a web app
- Tests written using Selenium in .NET, C#, and JavaScript
- Collaborated to integrate with existing app & infrastructure

Healthy School Buildings — *2018 - 2019*

FREELANCE REACT NATIVE JAVASCRIPT DEVELOPER

- Contributed to a React Native Android app to allow teachers to report unsafe or unhygienic conditions in public schools
- Worked with teammates to ensure backwards compatibility

Pro.com — *Summer 2017*

MOBILE DEVELOPMENT INTERN

- Built geolocation features in a Swift-based iOS app
- Features improved the accuracy of customer billing

TEAMS

FIRST Robotics Competition — *2016 - 2020*

TEAM CAPTAIN, PROGRAMMING LEAD

- Developed control algorithms to correct for mechanical variances and to assist drivers
- Emphasis on team leadership, management, conflict resolution, planning, and prioritization
- Attended State & World Championships
- FIRST Dean's List Semifinalist (individual award)
- Winner of programming award ("Control Award")

Olin RoboLab — *Jan 2021 - May 2022*

COMPUTER VISION RESEARCH PROJECT LEAD

- Researched use of structured light for autonomous underwater vehicle navigation and obstacle avoidance
- Expanded from an independent project to leading a team of several students
- Worked on a robotic fish project for low-power, low-light autonomous shallow water inspection and reconnaissance