

Annabelle Platt

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EDUCATION:

Olin College of Engineering *May 2023*
Bachelor of Science in Engineering: Computing

SKILLS AND TOOLS:

Programming languages: Python, C, C++, Java, Javascript, Typescript, R, HTML, CSS/LESS

Tech skills and tools: AngularJS, Angular, MongoDB, REST APIs, Git, Github Actions, Ros 2, robotic navigation, MATLAB, image processing, ggplot, pyplot, matplotlib

Design: Figma, Sketch, Illustrator, human-centered design, user experience design, data visualization

Outside of work: Dance, activism, crochet

EXPERIENCE:

Onshape - Senior Software Engineer *Sept 2023 - present*

Cutting-edge cloud-based CAD system. Fullstack senior software engineer on Data Management team. Worked with typescript and HTML/CSS/LESS to design and construct new features and fix bugs. Worked with Java and MongoDB to develop and maintain REST API endpoints, optimize database queries, and manage data. Re-architected and migrated large sections of legacy AngularJS code to Angular 19. Completed multiple optimization projects to reduce front end API calls and back end database calls. Wrote automated tests for both front and back end features. Collaborated with support team to solve user tickets

MathWorks - Software Engineering Intern *June - Aug. 2021*

MathWorks develops software for scientists and engineers. Designed and built a dashboard to display performance test metrics for MATLAB online, using Javascript, HTML, CSS. Refactored performance tests to improve efficiency

Duro Labs - User Experience Designer *Dec. 2021 - Dec. 2022*

Duro Labs is a small, cloud-based PLM company. Worked as a consultant designing user experience and graphics for Duro Labs. Created iconography and graphics to ensure a cohesive, professional look.

Onshape - Software Engineering Intern *June - Aug. 2021*

Worked with Java, HTML, CSS/LESS, and Typescript to implement bug fixes and new features.

PROJECTS

Racial Profiling in Traffic Stops Data Analysis - Sept 2022 - May 2023

Worked with public defenders in Massachusetts using statistical analysis to expose racial bias in police traffic stops. Developed a process for requesting, standardizing, and cleaning traffic stop data. Built an analysis tool in Python for public defenders to build reports for their defense.

Robot Autonomous Course Navigation - December 2022

Used Ros 2 with Python to autonomously pilot a robot through a course simulating a road. Included path planning, obstacle avoidance, sign recognition, and lane following.

Plankton Identification tool - January 2020

Used public plankton image data to write an algorithm to classify plankton. Binarized and isolated the plankton in the image, located the centroid, then performed a Fourier transform on the outline. Used Principal Component Analysis on the transform to classify plankton by species.