

Bryce S. Willey

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Boston, MA

WORK EXPERIENCE

Freelance, Full-stack Contract Developer, Boston, MA 10/2023-Present

- Collaborated and built trust with Michigan Legal Help, Lemma Legal, and Suffolk LIT Lab as clients.
- Led migrations of 60 guided forms to the docassemble platform, using Python, HTML, CSS, and JavaScript.
- Built custom bootstrap theme compiler and viewer for quick branding iteration.

Legal Innovation & Technology Lab: Suffolk University, Lead Software Engineer, Boston, MA 2020-2023

- Collaborated with legal SMEs to create guided online court forms using Python, HTML and JavaScript, Redis, Flask, Docker, AWS, and S3. These forms are used by 2.5k users monthly.
- Spearheaded the development and deployment of an e-filing platform and API for 5 states using Java, Docker Compose, PostGreSQL, and AWS involving coordination with multiple partner organizations.
- Established standardized CI/CD workflows across the organization using GitHub Actions.
- Mentored law students in software engineering fundamentals, agile methodologies, and project management techniques.
- Developed an integration testing framework with Section 508 web accessibility capabilities with Node.js and Puppeteer.
- Co-authored an academic paper analyzing 15k state court forms to grade form readability (Published at ICAIL 23).
- Created a GeoPandas and Bokeh-powered dashboard for geographic usage reporting.

Lemma Legal, Consultant 2021-2022

- Designed and launched an auto-updating legal clause selector, attracting 4.5k legal experts within 5 months.
- Integrated Stripe and docassemble for subscription payments.

Bluebonnet Data, Political Data Fellow 2020

- Managed and organized a comprehensive suite of political data, including census, voter files, and VAN, achieving high campaign satisfaction for Anthia Owns Carter's campaign (GA HD-47).

Realtime Robotics, Motion Planning Software Engineer, Boston, MA 2018-2020

- Crafted and optimized robotics motion planning algorithms in C++ in ROS, a pub/sub middleware, delivering optimal solutions in 0.5-3 seconds.
- Developed a novel autonomous vehicle motion planner (Patent No.: US 11,634,126 B2), with hardware engineers.
- Achieved a 70% reduction in robot cycle times through simulation software integration.

Kavraki Lab, Rice University, Graduate Student Researcher, Houston, TX, 2017-2018

- Researched and compared various robotic path planning methods.
- Successfully integrated and validated real-time UR5 robot control library using ROS.
- Served as a guest lecturer for the Algorithmic Robotics course.

Google, Software Engineer Intern, Tools & Infrastructure, Zurich, Switzerland, 2016

- Extended an Angular template parser to include Angular 2 syntax compatibility.
- Designed a dynamic web UI for real-time testing coverage data visualizations over Angular 2 Dart projects.

OTHER EXPERIENCE

MS, Computer Science from **Rice University** 2018

BS, Computer Science & BA, Visual and Dramatic Arts from **Rice University**, Magna Cum Laude 2017

Open Source

- Past Maintainer: MoveIt Motion Planning, <https://github.com/ros-planning/moveit>
- Contributor: docassemble, <https://docassemble.org>

Visioning Texts Personal Project: Browser data visualization for text conversations

- Summary and exploratory analysis of Signal or WhatsApp message data in Javascript
- Github Link: https://github.com/BryceStevenWilley/visioning_texts