

Richard Sollee

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Education

Massachusetts Institute of Technology (MIT) | Cambridge, MA | 2019 – present

Candidate for Master of Engineering in Computer Science

Expected June 2024

Bachelor of Science in Computer Science & Engineering; Bachelor of Science in Physics

June 2023

- Member of the Compilers at MIT (COMMIT) research group within the Computer Science and AI Lab (CSAIL)
- Relevant coursework: Software Performance Engineering, Software Construction, Computation Structures, Design and Analysis of Algorithms, Software Studio

Work Experience & Entrepreneurship

Owner and Developer of Sollee Development | Jacksonville, FL | June 2015 – present

- Created several websites for clients including small businesses.
- Developed TPlanner (www.tplanner.school), a school SaaS website adopted by The Bolles School with 100+ teachers, simplifying lesson planning and student communication by automating Schoology calendar appointments based on dynamic schedules.

Software Engineering Intern at NLP Logix | Jacksonville, FL | June – August 2023

- Contributed to an Agile development environment with sprint-based coding and biweekly customer demos.
- Helped develop the React frontend through adding new features, addressing bugs, and ensuring code coverage using the Jest framework for tests. Helped develop the Python backend APIs built in chalice where I assisted with the authorization logic as well as some database restructuring and modifications of the API code to support the changes.

Software Engineering Intern at USAA | Plano, TX | June – August 2022

- Worked with another intern to create an internal Salesforce application to ease the process of managing user access across multiple deployments.
- Participated in Agile standups, PI planning, and demoing completed stories to the business representatives.

Data Science Intern at NLP Logix | Jacksonville, FL | April – September 2020

- Lead a group for a Data Analytics Bootcamp for high school students using Tableau to teach visualization methods of data and the scikit-learn Python library to create and train their models.
- Created a dashboard using ReactJS for a competition to predict the failure of solid-state drives on aircraft.
- Built a data preparation pipeline for predictive maintenance of military aircraft.

Activities

Undergraduate Researcher in MIT's Computer Science and AI Lab (CSAIL) (2022-23)

- Member of the Compilers at MIT (COMMIT) research group, focusing on optimizing computations for Lattice Quantum Chromodynamics through code rewrites

Men's Lightweight Rowing (D1 Program) (2019 – present) | 25+ hours per week commitment, Fall / Spring

- Captain during 2021-22 season: Helped reform the team culture into one which prioritized commitment to hard work and supporting your teammates in their own improvements which lead to team best performances in competitions in recent years which has lasted past my tenure as captain.

Boy Scouts of America (2012-2019)

- Served as Senior Patrol Leader overseeing the planning of events and meetings for a group of ~20 individuals.
- Member of the Order of the Arrow (Boy Scouts Honor Society): Served as Lodge Secretary (responsible for the quarterly and bi-annual publications distributed to all members in Northeast Florida) and Website Chairman (Updated the Lodge website and created forms for our online payment systems)

Awards and Honors

- IRCA All American 2nd Team (2022, 2023)
- IRCA Scholar Athlete (2022, 2023)
- World Record holder for Men's 19&under Lightweight 100K on a rowing ergometer (2020)
- Salutatorian of graduating class (2019)
- Achieved the rank of Eagle Scout (2018)
- Recipient of the One Hundred and Ten Percenter Award for consistently demonstrating a strong commitment to extra work (2017, 2018, 2019)
- Recognized as Lodge Arrowman of the Year and Chapter Arrowman of the Year (Order of the Arrow, 2019)

Skills

- Programming: PHP, Python, JavaScript, Java, C++, HTML & CSS, SQL
- Software & Platforms: Microsoft Office Package (Word, PowerPoint, Excel), Tableau, Salesforce