JULIA DUFFY

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SUMMARY

Software Engineer and Computing Master's Candidate with a strong foundation in software engineering, backend systems, and mobile app development. Looking for Summer Software Engineering Internship with a real-world impact.

EDUCATION

Master's Degree in Computing   08/2022 - Present

University of Utah
- **GPA:** 3.75
- **Expected:** Fall 2027

PROJECTS

EPA Funded Project: School Air Quality App   08/2025 - Present

Working to develop an app to help school staff identify, understand, and monitor sources of indoor pollution. Collaborating with faculty from the Computing and Chemical Engineering Departments at the University of Utah.

Android Drawing App   01/2025 - 04/2025

A professional drawing app with user accounts, cloud sharing, a complex drawing editor, a custom asynchronous server, and a backing SQL database.

Programming Language Interpreter

Designed and implemented a full interpreter in Racket for a custom programming language as the final project in a Programming Languages course. The interpreter supports parsing, evaluation, lexical scoping, closures, conditionals, garbage collection, recursion, and error handling.

Climbing Team Website   01/2024 - 06/2024

A trafficked website for the Climbing Team at the University of Utah built with HTML, CSS, and JavaScript. Used by over 300 club members.

EXPERIENCE

Website Development Intern   04/2025 - 08/2025

PUSHER LLC
- Designed and deployed new website features for an international climbing hold company.
- Improved profits by integrating live shipping rates via a RESTful API and implemented international shipping to Canada.
- Automated label printing and pickup scheduling by connecting the site to an order management dashboard.

Computer Science Teaching Assistant   01/2025 - Present

University of Utah
- Currently working as a TA for Software Practice I which focuses on software engineering principles, C# development, networking, databases, and the .NET Core Framework.
- Hold help hours to debug student code, conduct labs, and grade programming assignments on a weekly basis.

SKILLS

Languages
Python, Java, Kotlin, C, C#, C++, SQL, Racket, JavaScript

Web
Django, NGINX, AWS EC2, RESTful APIs, JSON, C# LINQ

Tools + Environment
Windows, Git/GitHub, Docker, QT, Visual Studio, VS Code, Eclipse, PyCharm, Google Colab, GDB

EXTRACURRICULARS

Vice President
University of Utah Climbing Team

2023 - 2025

Helped run one of the largest student groups on campus. Managed communications and event planning.

National Team Athlete
USA Climbing

2021 - 2025

Competed internationally, including 7x U.S. National Team Member, 2x Vice National Champion.

AWARDS

David Eccles School of Business AI Hackathon 2025
Achieved 3rd place at the David Eccles School of Business Hackathon.