

Jordan Quinn

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EXPERIENCE

Robotics Systems Engineering Intern | May – December 2024 | Steven Myint and Andrei Tumar
NASA Jet Propulsion Laboratory – Robot Operations Group
Pasadena, California

- Improved simulation fidelity in ground operations software for the Mars 2020 Perseverance rover.
- Built a flight-software-in-the-loop subsystem simulating the rover's event-driven architecture and schedulers.
- Used C, C++, Python, Bash; RTOSs, Linux, OS schedulers; event-driven programming; time-series visualization.

Research Assistant | April 2023 – April 2024 | Drs. Cecelia Alm and Reynold Bailey
Rochester Institute of Technology – Computational Linguistics and Speech Processing Lab
Rochester, New York

- Created an app for visualization and interpretation of large, multimodal data sets in various research contexts.
- Utilized Python, JavaScript, Django, Pandas, Numpy, Plotly, Bokeh, and other Python frameworks in this project.
- Applied multimodal data analysis methods to support affective computing and HCI research.

EDUCATION

Rochester Institute of Technology | Rochester, New York | August 2022 – May 2026
B.S / M.S Computer Science | Specialization: Programming Languages and Tools | Minor: Mathematics

MS Project: Lambda Set Specialization for MLton

- Integrated a specializing defunctionalization technique into MLton, a full-program optimizing compiler for SML.
- Synthesized compilers, functional programming, intermediate languages, type systems, computation theory, etc.
- Experienced operating in a production compiler ecosystem with real-world developer considerations.

Dean's List: Fall 2022, Spring 2023, Fall 2023. Coursework in C, Haskell, Java, Python; OOP, procedural programming, functional programming; AI, ML, neuronal models, LLMs; data structures, algorithms; cryptography; project management, SCRUM; networking, distributed computing; relational databases, SQL; Linux; discrete math, graph theory, calculus, statistics.

Pitt Community College | Winterville, North Carolina | January 2021 – December 2023
Associates of Applied Science, Information Technology: Computer Programming and Development

- C# Programming Certificate, Data Reporting and Analytics Certificate, JAVA Programming Certificate

Coursework in Java, C++, C#, Python; GUI programming, web development; networking; relational databases, SQL; Linux; program design, project management; Agile and Waterfall development methodologies; Microsoft Office.

SKILLS

- **Development Languages:** C, C++, Elixir, Haskell, JavaScript, Python, Rust, SML
- **Technologies:** Bash, CSS, Git, HTML, Linux, Nix, NumPy, PyTorch, SciPy, SQL, Pandas, REST APIs
- **Code Editors:** JetBrains Suite, Vim, Visual Studio, Visual Studio Code
- **Productivity:** Agentic AI, GitHub, Google Colab, LaTeX, LLMs, Microsoft Office

PUBLICATIONS AND CONFERENCES

Isabelle Arthur, **Jordan Quinn**, Rajesh Titung, Cecilia O. Alm, and Reynold Bailey (2023). "MDE - Multimodal Data Explorer for Flexible Visualization of Multiple Data Streams" *Proceedings of Affective Computing + Intelligent Interaction conference*.

Jordan Quinn. "MDE - Multimodal Data Explorer for Flexible Visualization of Multiple Data Streams." Research demonstration. Affective Computing + Intelligent Interaction (September 2023).

Jordan Quinn. "Multimodal Data Analysis Software: Overcoming Static Limitations." Oral Presentation. Rochester Institute of Technology Undergraduate Research Symposium (August 2023).