

Jeremiah Kollodge

Software Engineer - *TS/SCI security clearance*

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WORK EXPERIENCE

Software Engineer

Space Dynamics Laboratory - Kirtland AFB, New Mexico

JULY 2023 - PRESENT

- Provide full-stack software solutions supporting multiple programs within Air Force Research Laboratory
- Contribute to an agile scrum team developing quantum clock measurement software, implementing C++ backend code to interface with lab instruments via SCPI and utilizing MATLAB for GUI-based measurement control and data visualization.
- Designed and built a C# application to manage the end-to-end data pipeline for training machine learning models with satellite telemetry data, optimizing data processing and model deployment workflows.
- Manage Ansible deployments to EC2s and created a dashboard to monitor the state of health of applications running across EC2s during live simulations.

Software Developer Intern

Tech Academy - Little Canada, Minnesota

MAY 2022 - SEPTEMBER 2022

- Full stack development on the company website designed for teacher and location scheduling for extracurricular coding classes and camps provided to kids.
- Key responsibilities: UX and UI design, bug fixing, code documentation, schema design, data querying.
- Technologies used: PHP, JavaScript, HTML, CSS, MySQL.

EDUCATION

Michigan Technological University

B.S. Computer Science

Houghton, Michigan

AUGUST 2019 - APRIL 2023

PROJECTS

- **C Minus Compiler:** Created compiler with scanner and parser files to read in C-type code and convert to assembly through grammar rules. Supports variable assignment and basic control flow; if/else statements, loops, functions, arrays. Technologies used: Bison and Flex, C, x86.
- **CCLC-Queue:** Website for the Michigan Tech Computer science learning center for students to ask questions and get help from coaches in a first-in-first-out system. Written in Python using the Django framework. Worked on the project as full-stack engineer and scrum master over two semesters.

SKILLS

- **Technical skills:** C++, C#, Python, Java, Asp.net Core, REST APIs, React, Vue.js, JavaScript, SQL, HTML, CSS, Bootstrap, Git, Jira, Docker, Object Oriented Programming, UI/UX Design, Linux, Database management
- **Soft skills:** Teamwork and collaboration, problem solving, detail-oriented, written & verbal communication, organization, meeting deadlines