

Axel Olsson

<https://axel-olsson-portfolio.netlify.app/>

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Technical and Software Skills

- Ruby / Ruby on Rails
 - Python / Django
 - PHP
 - Javascript
 - SQL / Database Management
 - Git & Github
 - Test Driven Development Lifecycle
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EDUCATION

University of Vermont – Honors College

Burlington, VT

Bachelor of Arts, Philosophy and Psychology, May 2022

2019 - 2022

- Defended and Published a thesis exploring novel approaches to mental health counseling for depressed patients.

Bucknell University

Lewisburg, PA

Philosophy and Psychology (Pursued Bachelor of Arts)

2018 - 2019

PROFESSIONAL EXPERIENCE

Precision Valley Communications

Springfield, VT

Software Developer (Remote)

May 2023 - Present

- Develop custom AI image recognition models to analyze and interpret elements from telephone pole images, optimizing field operations.
- Update legacy PHP and React systems both in PHP and in migrations to Python.
- Create custom made solutions applications using Python, SQL, Ruby, and Javascript.
- Build and maintain full stack web applications built on Ruby on Rails and Django, including an ERP and Project Management application.
- Build and maintain internal RESTful APIs for querying geospatial information, including ESRI.
- Build and maintain APIs and API libraries for intra-business and business-to-business use.
- Integrate with third party software including Salesforce, SmartSheet, FME and CAD.

Epic

Madison, WI

Quality Engineer

May 2022 – June 2023

- Collaborate with Research & Development to investigate and create software solutions to bugs for a product used by over 330 million people each year.
 - Create and development dozens of automated software testing applications and scripts each week.
 - Develop and implement changes to software functionality.
 - Communicate directly with clients to develop and assist with implementation of software solutions.
 - Manage three major development projects to ensure they are completed in a timely manner as well as a plethora of smaller weekly projects.
 - Mentor new hires through the onboarding process and educate them about the code-base and technical responsibilities.
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Freelance Experience

Boulder, CO

Software Developer

June 2024 - Present

- Designed and implemented C and C++ firmware for Arduino-based remote data collection devices to monitor water oxygen, quality, clarity, and pH levels.
 - Assembled and soldered sensor components, completing all electrical work to integrate water quality monitoring devices.
 - Designed a durable battery system capable of operating reliably in fluctuating temperatures.
 - Developed and deployed Ruby on Rails applications to build interactive dashboards for visualizing real-time and historical environmental data trends.
 - Enhanced user experience by creating responsive, intuitive dashboard interfaces, enabling stakeholders to make informed decisions based on water quality insights.
 - Create IoT devices that integrate over LTE networks to manage lake quality health.
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