

Kevin D. Zuniga Cuellar

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Education

The University of Vermont | Burlington, Vermont

May 2023

Master in Mechanical Engineering

Bachelor of Science in Mechanical Engineering, Minor: Computer Science

May 2020

Technical Skills

Programming Languages

JavaScript, TypeScript, Python, C++, Go, Rust, Matlab

Technical Tools

AWS, Azure, React, Astro, Nextjs, Node

Relevant Experience

Astro

Sep 2022 – Present

Level 2 Open Source Maintainer

Remote

- Collaborate on developing a meta-framework to build faster websites through island architecture.
- Developed and review end-user product documentation improving user experience and minimizing troubleshooting.
- Authored official Content Management System (CMS) and AWS deploy integration guide.
- Triaged and resolved over 100 issues opened on GitHub and Discord.

University of Vermont – College of Engineering

Sep 2021 – Present

Graduate Research Assistant

Burlington, VT

- Built a user interface that allows non-technical users to query a graph database without writing SPARQL queries.
- Improved image binarization performance by 30% and expand functionality to include more recent binarization methods such as Sauvola, Wan, and Wolf.
- Migrated microstructure tools from Matlab to Python, improving server performance by 20% and increasing developer satisfaction and ease of use.

Amazon

Feb 2021 – Sep 2021

Maintenance Technician II

Seattle, WA

- Performed routine preventive maintenance, and diagnosed and troubleshot fulfillment center machinery.
- Increase warehouse shipping efficiency by 5% by creating a new preventative maintenance schedule and standardizing diagnostic documentation.

Manantial Hotel

Nov 2020 – Dec 2020

Frontend Engineer

Seattle, WA

- Designed and developed a serverless web application with Next.js
- Improved website performance by 60% while reducing costs by 40% by migrating to a serverless architecture.
- Improved organic search rankings from page 5 to top 3 for 5+ high-competition keywords for hotels/hospitality.

University of Vermont - College of Engineering

Dec 2016 – May 2020

Undergraduate Teaching Assistant

Burlington, VT

- Assisted professor with the preparation, evaluation, and recording of daily lesson plans and laboratories for the following classes: MATLAB, AutoCAD, SolidWorks, Digital Control & Embedded Systems.

Open Source and Personal Projects

Binarized - Created an online image binarization tool running on WebAssembly

Px86 - Developed a Python compiler for x86 Assembly

Anonymous Admirers - Created a social media application (Won 3rd place in UVM CS Fair 2021 - Advanced Web)

Remark-code-title Created a remark plugin to add code block titles in markdown (500 monthly downloads in npm)

Youtube comments spam labeler - Created a machine learning model trained on Youtube comments data to label spam.

Gifind - Created a search engine that leverages the GIPHY API to share and store GIFs.

MaterialsMine - Collaborated in the development of an open-source data repository for nanocomposite data.

Certifications and Awards

- AWS Solutions Architect Associate
- Microsoft Azure Fundamentals