

# Nate Chambers

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## EDUCATION

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**University of Washington, Paul G. Allen School of Computer Science**

Graduation: June 2026

*B.S. Computer Science, Minor in Business*

## EXPERIENCE

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**AI Software Engineer**

May 2025 – Present

*Scale AI*

*Remote*

- Lead quality assurance efforts across a team of **3,000+ prompt engineers**, identifying and correcting **reasoning failures** and **coding inaccuracies** in LLM outputs.
- Refined datasets and optimized prompt structure to enhance model performance for clients like **OpenAI**, **Meta**, **Microsoft**, and **NVIDIA**.
- Utilized **Python**, **Go**, and **Java** to debug, test, and evaluate code outputs, using **PyTest**, **GoTest**, and **JUnit** frameworks.
- Provided technical feedback and collaborated with global teams to ensure high-quality AI training data delivery.

**Environmental Software Engineer**

December 2020 – May 2025

*Argos Scientific*

*Remote (Camas, WA)*

- Developed UV-based air monitoring systems deployed in oil refineries and communities affected by pollution.
- Built Python data pipelines to collect, flag, and visualize data from embedded sensors and scientific instruments.
- Designed and prototyped a low-cost Raspberry Pi-based environmental sensor for **PM**, **VOC**, and **CO<sub>2</sub>** detection.
- Reduced data processing time by **65%** by developing a Python automation script to streamline repetitive data tasks.
- Maintained MySQL databases and integrated REST APIs with Grafana for real-time monitoring and QA dashboards.

## PROJECTS

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**Automated Social Media Video Generator** | *Python, Web Scraping, Google TTS, Video Processing, Scheduling*

- Scraped new and popular storytelling posts from multiple subreddits and extracted post text content via Python.
- Generated captions and lifelike TTS voiceovers using Google's neural TTS API, combined with gaming backgrounds and trending music to create TikTok-style videos.
- Automated video assembly and scheduled autoposting to TikTok, Instagram, and YouTube Shorts, driving hundreds of thousands of combined views.

**Freelance Web Developer for Small Businesses** | *Wix Studio, WordPress, HTML, CSS, JavaScript*

- Designed and deployed responsive websites for **10+ local businesses**, improving online presence and customer engagement.
- Built sites using Wix Studio and WordPress, customizing templates with HTML/CSS/JavaScript to match branding needs.
- Handled client communication, SEO optimization, and monthly maintenance with hosting and analytics support.

**Protected Internal Documentation Site** | *MkDocs, Docker, OAuth2 Proxy, NGINX, GitHub Pages*

- Built an internal technical documentation site using MkDocs with a clean, searchable layout and custom theme.
- Secured access using Google OAuth via OAuth2 Proxy behind NGINX, with HTTPS enabled for secure traffic.
- Deployed using Docker containers and managed site hosting through GitHub Pages and Cloudflare DNS.

## TECHNICAL SKILLS

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**Languages:** Python, Bash, SQL, Java, Go, HTML/CSS

**Tools / Frameworks:** MySQL, REST APIs, Grafana, Git, Bitbucket, PyTest, JUnit, GoTest

**Platforms:** Raspberry Pi, Embedded Systems, Linux, VS Code