

# Joseph L. Krueger

✍️ Meta Product Engineer

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## Education

**University of Washington (Seattle campus)**

December 2024 | Seattle, WA, United States

B.S. Computer Science, Minor in Business

3.70/4.0 GPA

President and Co-founder of Clearvote, Algorithmic Trading Club, Salsa Club, UW Farm

Algorithms, Computer Security, Data Structures, Distributed Systems (Paxos), Hardware/Software Interface, Natural Language Processing, Parallel Computing, Software Design & Implementation, Systems Programming, Statistics, Accounting (with Excel), Management, Marketing

## Experience

**Clean Power Research**, Software Engineering Intern 🔄

June 2024 – October 2024 | Bellevue, WA

- Worked on the WattPlan team to develop an app that inserts charts into PDFs using dependency injected data in **.NET**
- Deployed existing orchestration infrastructure through **AWS Lambda** to connect with a **containerized Node.JS app**
- Designed new charts to generate on demand reports in under 5 seconds used by HVAC contractors across the country
- Wrote unit tests, integration tests and technical documentation following a strict, production-ready shipping standard

**Clearvote**, Co-founder 🔄

August 2023 – Present | Seattle, WA

- Founded a student run non-profit startup developing cross-platform **Next.js application** with **over 3000 users**
- Designed an **ML/AI** pipeline that preprocesses web-scraped local candidate data with sentiment analysis (fine-tuned GPT-4o) and voting district geodata to provide localized election information across the state of Washington
- Setup a throttled **RESTful API** using **Lambda** and **DynamoDB (NoSQL)** to optimize database access and reduce costs
- Leading shared team vision on UI design, security, cloud architecture scalability, and open-source contributions

**MCG Health**, Software Engineering Intern 🔄

June 2023 – September 2023 | Seattle, WA

- Worked on the CareWebQI Team to overhaul an In-patient diagnostic and perscription tool used by **2,800 hospitals**
- Migrated from a deprecated version of **Angular** to work with a **.NET Core** backend and setup a CI/CD pipeline in **Azure**
- Added auto-completion and code lookup support for **70,000 medical care guideline codes**

Applied agile project management principles in cross-team sprint planning sessions with **Confluence** and **JIRA**

**The University of Washington**, Teaching Assistant 🔄

January 2023 – June 2023 | Seattle, WA

- Led bi-weekly instructional quiz sessions and wrote exam questions for a new intro computer science course (CSE 122)
- Held office hours and individual tutoring for challenging topics of an upper-level systems programming class (CSE 351)
- Drafted grading policy for homework, midterms, quizzes, and exams

Skills

Technical

Python, Java, C#, C, C++, Dart, R, HTML, JavaScript, TypeScript, Flutter, Flask, .NET 8, Next.js, React, Vue, AngularJS, MySQL, Docker, Podman, Git, GitHub, AWS (CDK, Lambda, DynamoDB, EC2, S3, RDB, Amplify), Google Cloud Platform, PyTorch, TensorFlow, Puppeteer, Selenium, Tailwind CSS, D3, Tableau, Highcharts, Figma

Conceptual

UX/UI, Data visualization, Web Scraping, Object-Orientated Language Design Patterns, Software Development Lifecycle (SDLC), Agile Methodology, Supervised Machine Learning, Large Language Models (LLMs), Search Engine Optimization (SEO), Containerization, CI/CD Pipelines, Cookie security / Cross-Site Scripting, SQL Injection, IAM Resource Management

Projects

Dempsey Startup Competition, Autodubs — Semi-finalist	March 2023 – May 2023
DubHacks Hackathon, illustrAltor — Winner	October 2022
Unsuccessful Music Career, Spotify Album	September 2020 – July 2021