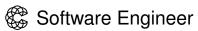
Joseph Laurent Krueger



EDUCATION

University of Washington (Seattle campus)

B.S. Computer Science, Minor in Business

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

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Clean Power Research, Software Engineering Intern &

June 2024 — October 2024 | Bellevue, WA

- Designed and implemented a scalable, fault-tolerant, .NET app that inserts charts into PDFs via dependency injected data
- Extended existing orchestration infrastructure with AWS Lambda to connect with a containerized Node.JS app
- Designed new charts generated for on-demand reports in under 5 seconds used by HVAC contractors across the country
- Wrote technical documentation and automated tests for debugging and monitoring to a production-ready coding standard Clearvote, Co-founder & August 2023 Present | Seattle, WA

• Founded a student-run non-profit developing a cross-functional, open-source **Next.js** application deployed through AWS

- Deployed a throttled, high availability **RESTful API** supporting over **over 3000 users** during a critical usage period
- Setup a DynamoDB NoSQL database leveraging web-scraped candidate data enriched with finetuned GPT-40 metrics and state geodata boundaries to provide localized election information across the state of Washington
- · Leading prioritization of dependency management, user research, security, cloud architecture and code quality

MCG Health, Software Engineering Intern &

June 2023 — September 2023 | Seattle, WA

- Worked on the CareWebQl Team to overhaul an In-patient diagnostic and perscritption tool used by 2,800 hospitals
- · Migrated from a deprecated version of Angular to work with a .NET Core backend
- Created a CI/CD pipeline in Azure for automated testing and deployment
- 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

PROJECTS

Financial Portfolio Rebalancer, Full Stack Application &

April 2024 — Present

- Trade Dashboard: Designed a responsive Flutter application for stock trades, prioritizing accessibility and UX design
- Auto Trader: Developed a C++ Technical Analysis application with data caching to enable sub-5-second stock speculations and >25% YOY returns using an estimated moving average algorithm
- *Time Series Forecast*: Designing a **Kubernetes** cluster integrated with **Prometheus** and **Grafana** to ingest preprocessed stock data and train a supervised regression machine learning model for stock price time series forecasting

DubHacks Hackathon, illustrAltor — Winner **6**

October 2022

Unsuccessful Music Career, Spotify Album &

September 2020 — July 2021

SKILLS

Languages: Java, C++, C#, TypeScript, Python, Dart, C, R
Frameworks: .NET, Flask, React, Next.js, Vue, AngularJS

Frontend: REST API Integration, Client-Side State Management, HTML5, CSS3, ES6 JS

System Architecture: API and service development, x86-64, ARM, Distributed system design, OOP Design Patterns

Database Systems: ER Modeling, Relational Databases (SQLite, MySQL), NoSQL (DynamoDB)

DevOps: Kubernetes, Docker, CI/CD (Azure), Shell scripting (PowerShell, Bash), IaC (CloudFormation) **Testing:** Monitoring (Google Analytics, CloudWatch), Testing (Unit, Integration), Test-Driven Development

December 2024

GPA: 3.70/4.0