Joseph Laurent Krueger

Frontend Engineer

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🎓 EDUCATION

University of Washington (Seattle campus) .... December 2024
B.S. Computer Science, Minor in Business .... GPA: 3.70/4.0
    President and Co-founder of Clearvote, Algorithmic Trading Club, Salsa Club, UW Farm

</> EXPERIENCE

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-4o 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 CareWebQI 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, illustrAItor — Winner 🔗   October 2022
Unsuccessful Music Career, Spotify Album 🔗   September 2020 — July 2021

🗄 SKILLS

Frontend:	REST API Integration, Client-Side State Management, HTML5, CSS3, ES6 JS
Frameworks:	.NET, Flask, React, Next.js, Vue, AngularJS
Languages:	Java, C++, C#, TypeScript, Python, Dart, C, R
Data Visualization:	D3, Vega, Tableau, Highcharts, Geospacial mapping, Network graphing
Web Archtecture:	Web Protocols (HTTPS, REST), Architectural Patterns (Monolithic, Microservices, Serverless)
Testing:	Monitoring (Google Analytics, CloudWatch), Testing (Unit, Integration), Test-Driven Development
Dev Tools:	Chrome DevTools, Build Systems (Make, CMake, Gradle), Source control (Git), GDB, Vim