Joseph Laurent Krueger

⊞ Microsoft Full Stack 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
Featured Coursework:
   Algorithms, Distributed Systems, Natural Language Processing, Statistics, Distributed Systems, Database Systems, Data Structures and Algorithms, Systems Programming, Cybersecurity, Human-Computer Interaction Programming, Parallel and Concurrent Programming

⟨/⟩ 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 perscritpion 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**

The University of Washington, Teaching Assistant 🔗   January 2023 – June 2023 | Seattle, WA

🗄 SKILLS

Technical
   C#, Python, Java, TypeScript, SQL (MySQL, SQLite), Git/GitHub, Docker, Azure DevOps Pipelines, REST APIs, .NET Framework, PowerShell Scripting, Debugging Tools (gdb, telemetry, logs), Cloud Platforms (Azure, AWS, GCP), Monitoring Tools (Amazon CloudWatch, Azure Monitor)

Conceptual
   System Architecture and Design, Microservices Architecture, Distributed Systems, System Reliability Engineering (SRE), Incident Management, Live Site Operations, CI/CD, DevOps Practices, Agile and Scrum Methodologies, Test-Driven Development (TDD), Security Best Practices (IAM, SQL Injection, Cookie Security), Data Analysis and Visualization

📂 SIDE 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