

Joseph Laurent Krueger

teleion Technical Program Manager

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🎓 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

December 2024

GPA: 3.70/4.0

🔧 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 perscription 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

- 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

📁 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 🔗

October 2022

Unsuccessful Music Career, Spotify Album 🔗

September 2020 – July 2021

📦 SKILLS

Frameworks:	Flask, .NET 8, React, Next.js, Vue, AngularJS
Dev Tools:	Git, Shell scripting (Bash, PowerShell), gdb
Languages:	Python, Java, C#, C, C++, Dart, R, JavaScript, TypeScript
System Architecture:	RESTful APIs, x86-64, ARM, Distributed Systems, Object-Orientated Design Patterns
Security:	RSA Encryption, Cross-Site Scripting, SQL Injection, IAM Resource Management
Data Visualization:	D3, Vega, Tableau, Highcharts
Project Management:	Software Development Lifecycle, Agile Methodology, Sprint planning, Jira, Confluence
Business & Strategy:	User Research, Digital Marketing (Meta Ads Manager, influencer outreach)