


Joseph Laurent Krueger

 Software Engineer

✉ joseph.l.krueger@gmail.com | ☎ (360) 763-3490 | 🌐 github.com/jkru3 | 🌐 https://jkru3.xyz/portfolio

🎓 EDUCATION

University of Washington (Seattle campus)

Bachelor of Science in Computer Science, Minor in Business

September 2022 — December 2024

GPA: 3.70/4.0

🔧 EXPERIENCE

Clean Power Research, Software Engineer Intern 

June 2024 — October 2024 | Bellevue, WA

- Designed a scalable, fault-tolerant **.NET** API service that inserts charts into PDFs from interface-defined endpoints
- Extended existing orchestration infrastructure with **AWS Lambda** to connect with a containerized **Node.JS** app
- Implemented an **Azure DevOps** CI/CD pipeline for automated deployment in dev and test environments
- 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, Startup 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
- Coordinated a marketing campaign with targeted branding, in-person promotions, and social media partnerships

MCG Health, Software Engineering Internship 

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
- 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, Full Time Teaching Assistant 

January 2023 — June 2023 | Seattle, WA

- Led class sessions, office hours, and individual tutoring for a computer architecture course and a introductory Java course

📁 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

- Winner from 455 participants building a Flask app that makes picture books out of novels with AI generated images

📦 SKILLS

Languages:	Java, TypeScript, Python, C#, Dart, C++, Shell scripting (PowerShell, bash)
Frameworks:	Node.js, .NET, Flask, React, Next.js, Vue, AngularJS, Flutter (cross-platform mobile development),
DevOps:	CI/CD (Azure DevOps, GitHub Actions), SRE practices (SLIs/SLOs, error budgets)
Cloud:	AWS (RDB, DynamoDB, EC2, S3, API Gateway), Azure, GCP, Serverless computing (Lambda)
Infrastructure:	Kubernetes, Docker, Linux admin, Distributed systems (CAP theorem, consensus protocols)