

Jacob Klymenko

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EDUCATION

University of Washington

Bachelor of Science in Computer Science and Systems; **GPA: 3.94**

Tacoma, WA

Aug. 2025

WORK EXPERIENCE

Full Stack Software Engineer

Sep. 2025 – Present

Junt Industries – OnSight Real Estate Platform

Remote

- Architect a **multi-tenant website hosting platform** on Azure, scaling containerized Nginx sites to **2,500 across 250 VMs** with horizontal capacity for **5,000+** and replacing a \$5K third-party solution.
- Automate provisioning pipelines achieving **~34s** click-to-production deployments via a proxy VM with **Let's Encrypt TLS automation** and per-agent custom domain routing.
- Co-own **~50% of the CRM frontend in Flutter** (mobile/web from a single codebase), shipping a threaded email client with rich-text composer and attachments, commission/ledger dashboards with paginated data tables and multi-step forms, and the website template preview system.
- Design a **distributed job processing service** on Azure Service Bus with chronological and scheduled queues, powering **16 job types** across infrastructure deployment, email pipelines, campaign automation, and Stripe webhooks.
- Engineer CRM marketing infrastructure: a **JSON-driven campaign engine (6 step types)** orchestrated via Azure Functions) and email pipelines with **dual-provider redundancy** (MailerSend, SendGrid) and inbound webhook handling.
- Implement a **commission engine (7 rule types)**, sliding-scale calculations, multi-agent transactions) and companion **double-entry ledger** for brokerage back-office operations.
- Ship **82 FastAPI endpoints** across a platform of **6 PostgreSQL schemas and 148 tables** using service/repository patterns with dependency injection.

Software Engineer Intern

Jun. 2025 – Sep. 2025

Junt Industries – OnSight Real Estate Platform

Phoenix, AZ

- Architected the **Azure cloud architecture** for the OnSight consumer platform (App Services, Functions, Service Bus, Application Gateway, VNet) with proxy-based authentication and private networking that later scaled into the full multi-product SaaS platform.
- Engineered backend APIs in **FastAPI** and PostgreSQL for a **Zillow-style consumer application** with property data, home history records, and document management, delivering a “Carfax for homes” feature set.
- Shipped the consumer app UI in **Flutter** (mobile/web from a single codebase) covering property browse, home history, document management, and auth/onboarding screens, owning visual design and UX decisions without formal mockups.

Software Engineer Researcher

Jan. 2025 – Jun. 2025

University of Washington

Tacoma, WA

- First-authored a **Systematic Mapping Study** analyzing **81** papers on autonomous drone security, identifying spoofing (**86%**) and network attacks (**80%**) as top threats with **46%** of detection methods using ML.
- Submitted findings to a **top-tier (A-ranked)** international software engineering conference.

PROJECTS

UMarket | TypeScript, React, Node.js, Express.js, PostgreSQL, Docker, AWS S3

Jan. 2025 – Apr. 2025

- Architected a microservices system with **4 services** improving modularity, and designed a scalable Supabase PostgreSQL schema boosting development speed by **30%**.
- Integrated Google OAuth 2.0 for secure user authentication, reducing login friction by **50%**.
- Led **9 backend developers** as Backend Lead of Tech Startup Club through API development, code reviews, and feature implementation across internal services.

UHealth | Python, Streamlit, Flask, SQLite, CNN

May 2025

- Trained a CNN pneumonia screening model on **5,000+** chest X-rays achieving **92% accuracy**, earning **2nd place** out of 17 teams at UHackathon (**100+ participants**).

TECHNICAL SKILLS

Languages: Dart, Python, TypeScript, JavaScript, Go, Java, SQL (PostgreSQL, Supabase, SQLite), HTML/CSS

Frameworks: Flutter (mobile/web), React, Next.js, FastAPI, Node.js, Express.js, Flask, Streamlit

Cloud & Tools: Azure (App Services, Functions, Service Bus, Application Gateway, VNet, VMs), Docker, Nginx, Stripe, MailerSend, SendGrid, Git, GitHub, GitHub Actions, Postman

Concepts: Distributed Systems, Multi-tenant SaaS, Microservices, REST APIs, Queue-based Processing, Database Design, Cross-Platform Mobile/Web, CI/CD, Agile