Owen Adrian

akrivus@gmail.com - github.com/Akrivus - owen.codes

Seasoned software engineer with a proven track record of independently designing and leading development projects. Skilled in translating complex problem statements into actionable development plans and delivering solutions that meet business needs.

Experience

Lead Development Engineer, Syntreno   Aug 2023 - Present

- Developed a sales simulator for web-based training in Unity, using Whisper to enable real-time conversations with GPT-4 and MFCC to animate a 3D avatar.
- Implemented RAG with Ruby on Rails and pgvector, reducing hallucinations and maintaining conversational coherence for an average of 6 messages.

Software Engineer, Unity Technologies   Mar 2021 - May 2023

- Implemented SSO in Unity Reflect, enabling project managers to import files, construction, and coordination issues from Autodesk BIM360 and Procore.
- Developed a microservice in Ruby that used Sinatra and FFI calls for near-native speeds, transforming large (>2 GB) BIM and CAD files five times faster.
- Built a 3D model viewer and server in Unity and Python that used WebSocket to stream polygons, reducing buffer times by up to 90% for Unity Reflect.

Full Stack Engineer, VisualLive   Mar 2020 - Mar 2021

- Assumed full responsibility for VisualLive's cloud infrastructure and Ruby on Rails codebase, resolved technical debt, and optimized front-end, improving response times by 67% and user satisfaction by 30%.
- Deployed an on-premise version of VisualLive for the U.S. Army Corps of Engineers to aid in reconstructing Tyndall Air Force Base.

Web Developer, Founder, Order Coffee Online   Sept 2017 - Mar 2020

- Developed a coffee ordering app in Ruby on Rails, Twilio, and Stripe during a weekend hackathon with two volunteer developers, generating over $500K in revenue and kicking off the days of over 3,000 people.

Technical Skills

- Ruby on Rails, Sinatra, Unity, C#, JavaScript, Svelte, React, HTML/CSS
- **Databases:** PostgreSQL, SQLite, MongoDB
- **Cloud Platforms:** Azure (App Service, Kubernetes), AWS (EC2, S3)
- **Tools**: Git, Linux, Docker, Kubernetes, Heroku, CI/CD

Education

Technology Solutions, Northland CAPS   Aug 2017 - May 2018