Billy King

Software Developer & AI Engineer

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PROFESSIONAL SUMMARY

Highly motivated Software Developer proficient in Python and modern front-end technologies such as React and GraphQL. Passionate about leveraging AI/ML APIs and techniques to build innovative, scalable solutions across the full stack with contributions to open-source projects and an app released on the Apple App Store.

KEY HIGHLIGHTS

- BSc Computer Science at University of Essex (In Progress)
- AI Tutor at xAI - Working on Grok LLM
- DevOps Engineer managing 30+ client applications

- Published Mac App Store application
- Full-stack development with AI/ML integration
- Open-source contributor

EXPERIENCE

AI Tutor (FTC)
xAI | April 2025 – October 2025

Performed data annotation tasks on xAI's Grok, an LLM that provides SOTA performance in numerous tasks.

DevOps Engineer
PC-IT Support | February 2024 – March 2025

Engineered CI/CD pipelines and managed scalable cloud infrastructure for multiple client applications.

Software Developer
Biton System Consultants | August 2023 – December 2023

Contributed to Python/Flask backend development for a high-volume trading platform, focusing on performance optimisation.

System Engineer
PC-IT Support | May 2023 – August 2023

Managed hybrid infrastructure ensuring performance and availability for enterprise users.

TECHNICAL SKILLS

Programming Languages
Python, C# (.NET Core), JavaScript, TypeScript, HTML/CSS

Frontend Development
React, GraphQL, REST APIs, UI/UX Principles, Safari Extensions

Backend Development
FastAPI, ASP.NET Core, Flask, PostgreSQL, MySQL, MongoDB

Cloud & DevOps
AWS (EC2, S3, RDS, Lambda), Azure (VMs, App Service), Terraform, Docker, CI/CD, GitHub Actions, Jenkins

AI & Machine Learning
OpenAI API Integration, Local Inference (MLX, llama.cpp), PyTorch, HuggingFace Transformers, CUDA, RLHF Training

Development Concepts
SDLC, Agile Methodology, OOP, System Design, Code Quality & Testing, Monitoring (Prometheus/Grafana)

FEATURED PROJECTS

QueryHop - Safari Search Redirector
Safari Extensions, macOS, JavaScript

Open-source Safari extension for macOS to redirect searches to preferred engines. Released on the Mac App Store with configuration management capabilities.

Kings Logistics Services - Live Delivery Tracker
FastAPI, Redis, Oracle Cloud, Terraform

Architected and deployed a FastAPI server with real-time delivery tracking capabilities using modern cloud infrastructure.

MLX Batched KV Cache
Apple MLX, Python, Machine Learning

Educational exploration of Batched KV Caching using Apple's MLX framework, demonstrating ML engineering principles and optimisation techniques.