### **ASHWIN KUMAR UMA SANKAR**

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SUMMARY

AI/ML and Full stack Engineer with 3+ years of experience in high-performance web and AI-integrated applications, specializing in

Angular, React, Next.js, LLMs, RAG pipelines, AI-assisted automation, and cloud deployment (AWS/GCP), with a proven track

record in optimizing performance, scaling systems, and contributing to AI research and open-source projects.

EDUCATION

MEng in Computer Science | Oregon State University – Operating System II, Algorithms GPA: 3.7/4.0 09/2023 – 06/2025

BTech in Computer Science | Hindustan University – Cyber Security & Forensics Graduate GPA: 3.6/4.0 06/2018 – 05/2022

SKILLS

**Languages**: Python, Java, JavaScript, TypeScript, C++

**AI & ML:** TensorFlow, PyTorch, Keras, Hugging Face, LLaMA 3, Groq, RAG, NLP, OpenCV, Scikit-learn, SpaCy, Agents, MCP

**Tools:** Tableau, Streamlit, WebSocket, Lighthouse CI, Sentry, Nginx, Plotly, Edge Caching

**Database**: MySQL, MongoDB, PostgreSQL, VectorDB, Pinecone, Supabase, ElasticSearch, FAISS, ChromaDB, Firebase

**Cloud:** AWS (Lambda, S3, CloudFront), GCP (Cloud Run, Kubernetes, Pub/Sub), Docker, CI/CD Pipelines, GitLab, GitHub Actions

**Web Development:** Angular, React 18, Next.js, TypeScript, RxJS, NgRx, Vite, Tailwind CSS, Cypress

**Certifications:** AWS Certified Solutions Architect, Python Data Structures, CI/CD & DevOps – University of Virginia

WORK EXPERIENCE

**CLAW CODE Arizona – Remote**

***Co-Founder*  07/2025 – Present**

* **Fine-tuned a 20B** open-source LLM using Python, LangChain, and custom RAG pipelines to auto-generate 2D/3D games with Phaser.js, Three.js, and Babylon.js, cutting generation time **to <1 min** (**3–4 min** faster than baseline like Loveable/Base44).
* Designed custom datasets, reusable prompt templates, and agent-based benchmarking tools to evaluate **30+ game scenarios**, improving playability, latency, and deployment speed enabling live previews and one-click production launches.

**OREGON STATE UNIVERSITY Corvallis – Remote**

***Project Assistant and Web Developer* 01/2024 – 06/2025**

* Numba JIT-compiled Python algorithms in the **SCARR Open-Source Framework**, boosting 300GB+ LRA data processing by 30% and improving signal accuracy via SNR and Chi-Square validation (benchmarked with VTune) under Professor Vincent Immler.
* Contributed to a **7-person cross-functional team** (developers + designers) in redesigning Oregon State University's 2025 web platform. Explored AI-assisted development by integrating GitHub Copilot and fine-tuning LLaMA to automate boilerplate code, speeding up feature delivery by 30%.

**KIVI IITM Research Park, Chennai**

***Associate Software Developer* 06/2022 – 08/2023**

* Built 20+ Angular & React Native applications serving **20K+ monthly active users,** including land analysis tools and digital banking platforms with **<800ms latency** for smooth user experience.
* Integrated secure fintech workflows using Equifax, DocuSign/Razorpay, and OAuth 2.0/JWT, reliably processing 2K+ daily transactions. Automated CI/CD pipelines with **GitLab & GitRunners,** reducing deployment times by 30% and minimizing production errors.

**GENWORKS Wipro, Bangalore**

***Data Analyst Consultant* 01/2022 – 05/2022**

* Streamlined **50+ MongoDB and Cassandra** collections by restructuring schemas and collaborated with engineering to migrate legacy datasets to AWS DynamoDB, reducing query latency by 40% for faster dashboard loads.
* Developed Python scripts to sync product, customer, and transaction data with built-in automated validation checks, enabling real-time dashboards with **<2s refresh rates**.

PROJECTS

**AI-Native Development Tools | Python, LLaMA 3, scikit-learn, FastAPI**

* Built AI-powered developer tools including SnappyPilot, a LLaMA-3 Git issue generator for VSCode/CLI; SnipperScrapper, a Chrome extension using RAG for 87% accurate code solutions from **Stack Overflow and Medium**; and TaskPilot AI, an AI task manager with **auto-priority scheduling**, improving planning speed by 65%. [Live Demo](https://www.ashxinkumar.me/projects)

**Performance at Scale – Emergency Route System | Python, AWS Lambda, Edge Caching**

* Developed a low-latency **crisis routing system** with Professor Zhang, Yue for DA Office in Salem, Oregon, achieving <400ms response time using Python, AWS Lambda, and edge caching for scalable, real-time performance in high-pressure emergency scenarios. [Live Demo](https://www.ashxinkumar.me/projects)

**Open-Source Contributions | Python, Angular, AI, DevOps**

* Maintained **50+ repositories** across Angular, AI, and DevOps projects, contributing over 500 commits and improving code quality and scalability. [Live Demo](https://www.ashxinkumar.me/projects)