

Archit Jaiswal

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Seattle, WA

EDUCATION

University of Washington (GPA: 3.88/4.0; Dean's List)

Bachelor of Science in Computer Science and Software Engineering

Bothell, WA

Sept. 2024 – Expected June 2028

- Relevant Coursework: Computer Programming I & II (**Java**), Data Structures & Algorithms (**C++**), Statistics, Calculus I & II, Software Engineering(Agile Methodologies)

AWS AI Engineer Nanodegree

Udacity (Built in collaboration with AWS)

Sept. 2025 – Nov. 2025

- Projects: Smart Budget Buddy, Intelligent Document Querying System (**Bedrock, RAG, S3, Aurora**)

EXPERIENCE

User Insight R&D Intern

Apexiel, Inc.

Bothell, WA

Sept. 2025 – Dec. 2025

- Developed an AI story assistant by fine-tuning a **Phi-3** model to act as an interactive interviewer, optimizing it via **QLoRA** and **Unsloth** to make sure it is a fast, seamless experience for web users.
- Accelerated story creation by 40% across 5 motorsport categories by building a photo-first platform (**Flask, React, PostgreSQL**) that analyzes photos to match templates, reducing selection time by 25%.
- Improved upload reliability by designing a **presigned URL** pattern using **Flask APIs** and local storage.
- Reduced content complexity by 60% by building a **JSONB content system** for text, images, and carousels.

Software Engineer Intern

Genmark AI

Seattle, WA

June 2025 – Aug. 2025

- Increased feature coverage by 50% by expanding platform capabilities from 6 to 9 supported workflows through a UI redesign (**TypeScript**) and configuring **Python** backend services for **GCP** deployment.
- Reduced manual marketing work by 40% by building end-to-end automation pipelines using **n8n** and **Python** to generate **AI-driven content** and schedule posts based on user instructions.

PROJECTS

Intelligent Document Querying System - [GitHub Link](#) | Amazon Bedrock, RAG, Terraform

- Built a production-ready RAG system using **Amazon Bedrock** and **Claude 3 Sonnet** to retrieve and reason over enterprise documents with high accuracy.
- Built a scalable vector store with **Aurora Serverless** and **pgvector**, achieving sub-second query performance.
- Automated infrastructure deployment using **Terraform** to manage VPCs, IAM roles, and S3 data sources, reducing setup time for new knowledge bases.
- Optimized model output by configuring **Temperature (0.7)** and **Top P (0.9)** parameters to balance response creativity and factual clarity for document-based Q&A.

Deep Learning Recommendation Engine | PyTorch Neural Collaborative Filtering

- Designed a Neural Collaborative Filtering system using **PyTorch** on 23,000+ reviews, achieving 21.5% precision for top-10 suggestions and 36% improvement over matrix factorization.
- Addressed class imbalance and cold-start problems using negative sampling, dropout, and feature engineering.
- Deployed production system with **FastAPI** and **Redis** for fast inference, including automated retraining and monitoring with **Prometheus** and **Grafana**.

neuroverse-dusky.vercel.app - Neuroscience Data Visualization Platform - [GitHub Link](#)

- Built a full-stack web application to visualize demographics from 23 **OpenNeuro** datasets (2,700+ participants).
- Developed a **RESTful API** using **Python (FastAPI)** to fetch and parse data, and deployed the scalable backend on **Render** with **PostgreSQL** and the **React** frontend on **Vercel**.
- Created interactive **3D data visualizations** with **React** and **Plotly.js** for age, sex, and diagnosis distributions.

UW Seattle Navigation System - [GitHub Link](#) | Java, Dijkstra's Algorithm, Graph Data Structures

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, HTML/CSS, SQL, Swift

Frameworks & Libraries: React, Flask, FastAPI, Spring Boot, PyTorch, NumPy, Pandas, SwiftUI

AI & ML: Amazon Bedrock, SageMaker, Phi-3, RAG, Embeddings, Comprehend, QLoRA, Unsloth

Databases & Cloud: PostgreSQL, Amazon S3, Aurora, Lambda, GCP, Terraform

Tools & DevOps: Docker, Git, REST APIs, Testcontainers, JUnit, Prometheus, Grafana, Redis