Abhineet Akkal

(not disclosed for project)

Professional Summary

Computer Science graduate with extensive experience across software engineering, full-stack development, and cloud-based systems. Strong background in building scalable applications, designing APIs, integrating databases, and developing automated workflows. Skilled in multiple programming languages and modern frameworks, with hands-on experience spanning web development, backend services, DevOps tooling, and AI-powered solutions.

Core Competencies

Technical Skills: Java, C, C++, C#, Python/Django, Rust, Swift, JavaScript, HTML/CSS, Bash, MATLAB, R, GDScript, React, Node.js, Express, Pandas, NumPy, OpenAI API, PlantUML, AWS, Docker, DevOps, Kubernetes, Git, SonarQube, Kibana, Godot, Unity (C#), Log Analysis, Workflow Automation, Full-Stack Development
Programs & Tools: Visual Studio Code, IntelliJ IDEA, GitHub, Postman, MATLAB, Langgraph, LangChain, Jupyter Notebook, Figma, Jira, Linux/Unix Shell, Agile Development, REST APIs, Prompt Engineering, Data Visualization, Xcode, Supabase, Debugging, MongoDB, MySQL, SQLite, CI/CD
Relevant Coursework: Artificial Intelligence & Machine Learning, Data Structures & Algorithms, Operating Systems, Compilers, Software Engineering, Algorithms, Theory of Computation, Computer Architecture, Discrete Mathematics

Work Experience

Undergraduate Intern Technical Premium, Intel Corporation, Hillsboro, OR — May 2024 – Present

- Built a Generative AI-powered Yammer bot that integrated with internal APIs to automatically respond to employee questions using AI-generated responses, improving knowledge accessibility and reducing response time.
- Developed and implemented machine learning algorithms using the OpenAI API to convert natural language text into PlantUML code for automated diagram generation.
- Integrated projects with a Kibana server and SonarQube in the CI/CD pipeline, enabling organized storage and quick retrieval of logs from both the UI and backend.
- Received a Division Recognition Award (DRA) in the Intel IT Group for Catalyst AI Framework: Accelerating AI Innovation and in the Intel IT Group for PlantUML Smart Engine (PULSE) GenAI Code Generator.

CS301: Object-Oriented Design Grader, University of Portland**,** Portland, OR — January 2024 – May 2024

- Evaluated student Java assignments and provided constructive feedback to enhance their understanding of key principles and best practices in software design.
- Ensured adherence to established grading parameters and deadlines while maintaining confidentiality and professionalism in handling student work.

Notable Projects

Hinder – Founder & Full-Stack Developer — August 2025 – Present

- Designed and developed Hinder, a real estate iOS app with a swiping UI that connects buyers, sellers, and agents for home listings and matches.
- Built a full-stack system in Swift and Supabase, featuring role-based authentication and listing management.

XR Development, Capstone — August 2024 – May 2025

- Collaborated with a team of Computer Science students to develop an immersive VR application in Godot for the Meta Quest 3, designed to visualize concepts such as Turing Machines, Selection Sort, and Binary Search Trees
- Enhanced educational experiences by addressing student and instructor needs, integrating AI-generated question prompts, and building interactive modules aligned with classroom instruction

CISGO Globe, Software Engineering — January 2024 – May 2024

- Team development of an interactive globe/map with a dedicated server for the University of Portland, facilitating data collection and connection among faculty, staff, and students.
- Incorporating features to visualize study abroad experiences of University of Portland members using HTML/CSS/REACT/MongoDB, enabling prospective participants to explore pinned locations on the map.

Spotify Music Recommender, Research at University of Portland — December 2023 – May 2024

- Working with peers to develop a cutting-edge rock and roll/classical music recommender system, utilizing advanced music theory, data science, and machine learning techniques.
- Engineering algorithms to analyze note values and patterns using Python, enabling the AI system to generate personalized song recommendations based on musical attributes.

Github Portfolio

https://github.com/abhiakkal

Education

Bachelor's of Science (BS), Computer Science, University of Portland