

Pavan Nallagoni

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OBJECTIVE

Results-driven Computer Science graduate with a proven track record of academic excellence and practical expertise in Software Engineering, Human-Computer Interaction, and Data Analysis. Seeking to apply my adept skills in software engineering, full-stack development and cloud technologies to drive impactful and innovative solutions. Committed to delivering seamless user experiences and contributing to cutting-edge advancements in technology.

EDUCATION

Oregon State University | Corvallis, OR

September 2021 – Present

Master of Science in Computer Science

GPA: 4/4

Coursework: Software Engineering, HCI, Methods of Data Analysis, Database Management Systems

Jawaharlal Nehru Technological University | Hyderabad, India

August 2017 – July 2021

Bachelor of Technology in Computer Science and Engineering

GPA: 3.9/4

Coursework: Design and Analysis of Algorithms, Machine Learning, Big Data, Computer Systems

EXPERIENCE

Oregon State University

September 2021 – Present

Graduate Assistant

Corvallis, OR

- Developed scalable Full Stack exercise tracker application using React for front-end UI and Python/Django for back-end REST API, leveraging AWS DynamoDB for data storage.
- Reduced manual reporting by 12 hours/week and improved performance by 10% through critical athletics data access.
- Evaluated application's architectural strategies with focus on Scalability, Usability, and Security.
- Instructed Software Engineering course emphasizing real world Agile software development & effective team evaluation.

Landmark Group

September 2020 – July 2021

Software Engineer

Bangalore, India

- Successfully migrated an application from Laravel to FastAPI, transforming 54 PHP APIs into Python and significantly enhancing system performance, scalability, and maintainability.
- Redesigned the pricing model, resulting in a notable 13% improvement and optimizing the business model for increased efficiency.
- Collaborated with developers in managing 50+ servers, leading to a 30% decrease in customer complaints.
- Optimized company's AWS cloud and utilized AWS RDS to boost international data retrieval speed by 10%.

XVigil, CloudSEK

June 2020 – September 2020

AI Threat Analyst Intern

Bangalore, India

- Identified malicious threats & resolved 80% of security issues using behavioral patterns through AI/ML algorithms.
- Accomplished requirements to be recognized as XVigil Professional, a SaaS based digital risk monitoring platform.

PROJECTS

Chat with PDF, LlamaIndex, GenAI

- Developed a responsive GenAI application with interactive chat functionality with Typescript, React and Next.js to ensure an exceptional user experience.
- Enhanced PDF document processing with LlamaIndex, achieving over 60% improvement in vector indexing efficiency.
- Guided by the head of Typescript and DevRel @LlamaIndex, revamped the app with interactive chat using OpenAI and ContextChatEngine to boost user engagement.

Native iOS Mobile Application, SwiftUI - Itinerary Guide

- Pioneered a travel planning iOS application using Swift, AWS Lambda, API Gateway, and DynamoDB in a serverless architecture, resulting in a scalable and cost-effective solution.
- Designed an intuitive UI using SwiftUI's MVVM architecture pattern, ensuring a seamless and efficient user experience.
- Integrated OAuth 2.0 and RESTful APIs to enable user account management, itinerary planning, and budget tracking, enhancing the travel planning process.

Full Stack Application - LEA & Judiciary Interactive Case Management System

- Created an interactive full stack web application for authorized users to log in, file cases, and host meetings efficiently, leveraging React, Express.js & MongoDB.
- Implemented a WebRTC video conferencing platform using Python and Flask, integrated with OpenTok Video embedding, and achieved a 30% improvement in content accuracy while minimizing manual errors.
- Utilized agile methodologies to deliver incremental improvements, leading to a 26% increase in overall productivity.

TECHNICAL SKILLS

Languages	Python, Java, JavaScript, C/C++, Swift, Go, R
Database	SQL, PostgreSQL(Prisma), MongoDB(Mongoose), AWS DynamoDB(Dynamooose), SQLite, Supabase
Technologies	HTML, CSS, React, Django, Flask, FastAPI, Angular, Express.js, Node.js, SwiftUI
Software & Tools	Git, Github, Docker, Jenkins, EC2, JIRA, Confluence, Vim, VSCode, XCode, Figma
Cloud Technologies	Firebase, AWS, Azure, Google Cloud Platform

VOLUNTEER EXPERIENCE

Event Co-Ordinator - EECS Graduate Student Association **September 2021 – Present**

- Maintained consistent communication and demonstrated responsibility in organizing technical and non-technical events.

Microsoft Virtual Internship Program

- Gained in-depth insights into Microsoft's work culture and Azure cloud technologies.