Pranav Dhoolia

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As a dedicated graduate software engineer, I have a growing expertise in full-stack development, primarily working with JavaScript (NodeJS), Python, and PostgreSQL. I am familiar with deploying and managing applications on Amazon Cloud, focusing on CI/CD processes and IaaC. I am also exploring the application of Generative AI in problem-solving, constantly learning and adapting to new technologies.

Education

Bachelor Of Engineering (Honours), The University Of Queensland
2023

- Received the Dean's Scholarship Award (30% scholarship)
- Notable Courses: Computer Systems Principles and Programming (CSSE2310), Software Architecture (CSSE6400), Design Computing Studio (DECO), and Advanced Topics in Security (COMS4507)

Honours Thesis

Incorporation of Smart AI Assistant in Online Business Workspaces
2022

- Worked with members of CSIRO and Associate Professor Stephen Viller at UQ on a research mega-project
- Explored the best ways to use smart AI assistants in online business meetings.
- One of the earliest adopters of GPT-3 technology. Conducted this research before the widespread use of ChatGPT.
- Created and tested initial versions of an AI assistant using Slack, ahead of the curve in AI integration. The AI assistant effectively managed meeting tasks, organised information, and improved communication.

Technology Exposure: Figma, Slack API, Generative AI, GPT, Rest API, ExpressJs

Certifications

Coursera Certification: Generative AI with Large Language Models [credential url]

- Gained foundational knowledge, practical skills, and a functional understanding of how generative AI works
- Dived into the latest research on Gen AI to understand how companies are creating value with cutting-edge technology
- Instructed by expert AWS AI practitioners who actively build and deploy AI in business use-cases today

Skills: Python Programming, Machine Learning, Large Language Models, LLMs, Generative AI

Professional Experience

Full Stack Developer, Racing Pigeon [link]
Oct 2023 – Nov 2023, Sydney
Gained valuable insights in the industry through a significant project for an NGO client worth $40,000.

- Enhanced a prototype into a production-ready React application, improving response times by over 50%, and streamlined backend with a NodeJs REST API following OpenAPI specifications.
- Optimized database interactions using ORM (Prisma) and deployed the API using Docker and AWS, boosting system reliability and saving over $8000.
- Implemented robust testing with Jest and Cypress, and employed Webpack for asset bundling, significantly enhancing load times and application performance.

Technology Exposure: React, NodeJs, OpenAPI, Docker, AWS, Prisma (ORM), Jest, Cypress (Testing), Webpack (Build System)

Backend and Cloud Engineer, ChatStat [link]
Apr 2023 – Sep 2023, Brisbane

- Contributed to the shift to AWS, achieving more than 30% in development cost savings, and automated builds with Git, Docker, and Terraform, reducing development and release time by over 60%.
- Improved backend efficiency by over 30% through PostgreSQL (SQLAlchemy) integration and enhanced team collaboration with Git workflows, PRs, and code reviews.
- Adapted swiftly to Agile practices using Jira Confluence, streamlining project management and playing a vital role in sprint planning and daily Agile operations.

Technology Exposure: Node.js, TypeScript, React.js, Tailwind CSS, Eventlet, Celery, Python, CI/CD Pipelines, Git, Agile (Jira Confluence)

Software Development Intern, Vapidmedia [link]
Nov 2022 – Jan 2023, Delhi, India

- Proposed and implemented a platform shift towards AWS, cutting development costs by more than 30%.
- Contributed to automating application builds using Git, Docker, and Terraform, which reduced app development and release time by over 60%.
- Demonstrated proficiency in Git and developer workflows, including PR (pull requests), merges, and code reviews, enhancing team collaboration and version control practices.

Junior Frontend Intern, Capdice LLC
Oct 2020 - Jan 2021, Bangalore, India
- Developed user interfaces with React.js, HTML5, and CSS3, focusing on responsive design and cross-browser compatibility.
- Integrated RESTful APIs and implemented dynamic features using JavaScript and jQuery, collaborating in Agile sprints and using Git for version control.
- Conducted unit and end-to-end testing with Jest and Cypress, ensuring high-quality code and user experience.

Technology Exposure: React.js, HTML5, CSS3, JavaScript, jQuery, RESTful APIs, Agile, Jest, Cypress, Git

Junior Data Science Intern, Sirpi [link]
June 2020 – Sep 2020, Bangalore, India
- Conducted data analysis and visualization using Python with libraries like Numpy and Pandas, enhancing insights and reporting capabilities.
- Developed small-scale service applications using Node.js, facilitating data aggregation and automation of data processes.
- Utilized RStudio for statistical analysis and modeling, contributing to research and data-driven decision-making projects.

Technology Exposure: RStudio, Python (Numpy, Pandas), Node.js

Projects

ClientFinder (Service) [link]
2023
- Created full-stack infrastructure using Node.js, TypeScript, and React.js.
- Used Eventlet framework with Celery for multithreaded I/O, speeding up the system's ability to handle user requests by more than 50x.
- Created automated tests using AI and executed them, reducing testing time by 80%.

Technology Exposure: React, TypeScript, Celery, Eventlet, Github Actions, Docker, AWS

Coverlettergen (API)
2023
Developed an online service for dynamic generation of personalized cover letters using OpenAI API and Retrieval Augmented Generation.
- Developed a scalable backend in Python and Flask, handling over 100,000 simultaneous requests, and a React frontend that increased user engagement by 40%.
- Ensured high system reliability under heavy traffic with Curl and k6 tests, and maintained application integrity with over 500 Cypress end-to-end tests.
- Implemented AWS Auto Scaling with ECS, effectively managing traffic spikes up to 150% without performance degradation.

Technology Exposure: Python, Flask (Gunicorn), Celery, Eventlet, Github Actions, Docker, AWS, Curl scripts, k6, React (styled components), Cypress

StudyOracle (Product) [link]
2023
Created an AI service that had over 200+ signups (including university students, professors, and industry professionals) to 10x student productivity.
- Designed and developed an AI service using fine-tuned OpenAI models and retrieval augmented generation (RAG).
- Integrated Auth0 for user authentication. This implementation led to a 20% reduction in unauthorised access attempts and a boost in user trust and satisfaction.
- Hosted the API using Flask and Gunicorn to make the service respond 10% faster and handle 35% more users at the same time without any hiccups.
- Optimized request processing speeds using advanced queue management techniques in Redis.

Technology Exposure: Auth0, PostgreSQL, Docker, Flask, Redis, SQLAlchemy

References

Stephen Viller, *Associate Professor*, The University of Queensland viller@eecs.uq.edu.au
Vishal Gupta, *Product Engineer*, Racing Pigeon vgupta463@gmail.com