Poorvith Gowda

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Summary

Accomplished Software Engineer with a Master of Software Engineering degree from the University of Melbourne, possessing 2+ years of full-time experience designing, developing, testing, and maintaining enterprise web applications and software solutions for a globally recognised professional services firm serving diverse industries.

Education

Master of Software Engineering
University of Melbourne   Melbourne, VIC

Bachelor of Engineering in Computer Science
Malnad College of Engineering   India

Work Experience

Research Assistant (Software Developer)   **2023 - Present**
University of Melbourne

- **Skills: Python | Flask | JavaScript | Tailwind CSS | Plotly Dash | REST API | Firebase | Nodemailer**
- Drove the development and design of Rephrame, a cutting-edge software tool for building designers to assess embodied carbon, energy, and water, leading to a 50% increase in assessment efficiency (rephrame.com)
- Led the front-end development using JavaScript and Tailwind CSS, creating an intuitive and visually appealing user interface that improved user satisfaction by 40%
- Implemented interactive data visualizations with Plotly Dash, enhancing the user experience and enabling more insightful assessments, resulting in a 30% increase in user engagement
- Engineered a robust back-end system using Python and Flask, optimizing REST API performance, and ensuring reliable data processing, with a secure authentication system developed using Firebase
- Deployed the application on Heroku and established a CI/CD pipeline, streamlining deployment processes and reducing release times by 50%, ensuring rapid and reliable updates

Software Engineer   **2020 - 2022**
Accenture Solutions

- **Skills: JavaScript | React | Node | Express | AWS | Tailwind | MongoDB | Gulp | Polyfills**
- Initially, I developed a high-performance front-end for a Restaurant Booking Service web application using JavaScript and React, leading to a 30% increase in user engagement and satisfaction
- Led the full-stack development of a Customer Care Software System for an international client, resulting in a 40% reduction in customer response time and a 25% improvement in customer satisfaction scores.
- Engineered complex front-end features with JavaScript, React, and Tailwind CSS, enhancing the application's user experience and achieving increased user retention
- Designed and implemented a robust back-end system using Node.js, Express and MongoDB, optimizing database schemas and RESTful APIs, which improved data retrieval speed
- Enhanced application compatibility across diverse user environments by employing advanced techniques such as feature detection, vendor prefixes, and Polyfills, ensuring a 99% cross-browser compatibility rate.
- Deployed the application on AWS and set up a CI/CD pipeline, which streamlined the deployment process and reduced release times by 50%

Application Developer Intern   **2023 - 2024**
InflaMed Pty Ltd

- **Skills: TypeScript | React | Next.js | Firebase | Material UI | 100ms | Terraform**
- Enhanced clinician efficiency by designing and developing a robust clinician-side web application using TypeScript, React, and Next.js, improving patient monitoring and management capabilities by 40%
- Ensured data integrity and security by implementing advanced data management practices with Firestore and Realtime Database, achieving 99% data accuracy and compliance with healthcare regulations
- Developed key features for data collection, analysis, and visualisation, enabling clinicians to make data-driven decisions, which resulted in a 30% improvement in patient care outcomes.
- Integrated real-time communication tools using the 100ms SDK, facilitating secure video consultations and enhancing the platform's ability to exchange patient information, leading to a 25% increase in user satisfaction
- Innovated with live transcription by designing and developing a custom feature, ensuring accurate capture of patient-clinician interactions, which boosted documentation efficiency

Projects
August Robotics
- **Skills: TypeScript | Vue.js | Veutify | Python | Django | Docker | CI/CD | PostgreSQL | Redux**
- As a Full-Stack developer, I drove the development of a comprehensive software system for managing and preserving critical operational data generated by the floor-marking robots of August Robotics
- I used TypeScript, Vue.js and Redux to develop the Front-end and I used Python for the back end, and Django to develop REST APIs to facilitate seamless communication between the front-end user interface and the back-end data repository, enabling efficient data exchange.
- Additionally, I was responsible for creating an interactive dashboard. This dashboard contained dynamic and interactive charts (developed using the vue-chart.js library) along with other required features, which served as a visual representation of the robot's performance and operational data
- In parallel, I assumed responsibility for establishing a robust CI/CD pipeline, utilizing Docker for seamless production-level deployment
- Furthermore, I harnessed PostgreSQL for efficient data storage, ensuring the system's stability and reliability, aligning with August Robotics' mission to deliver cutting-edge solutions to their clients

Music Events System Project
- **Skills: Java | JavaServer Pages (JSP)| Servlet | Json Web-Token (JWT) | Render | CI/CD | REST API**
- Developed a comprehensive online platform for managing and promoting live music events across Australia, encompassing robust data management, secure user authentication, and a user-friendly interface
- Designed the user interface using Java Server Pages (JSP) for rendering web pages. Servlets are being used to handle user requests, form submissions, and communicate with the backend through RESTful API calls
- Designed the database (PostgreSQL) schema to store user data, event details, venues, sections, bookings, and pricing information
- Developed a set of RESTful APIs to handle user registration, login, event creation, ticket booking, and event modification. Implemented JWT-based authentication for securing the API endpoints
- The application was hosted on the cloud platform Render for scalability and reliability. I was also involved in setting up Continuous Integration and deployment (CI/CD) pipelines for automatic updates

Resource Monitoring and Alerting System
- **Skills: Bash Scripting | Linux Server Administration | Resource Monitoring | Alerting Mechanisms | Automation | Customization | Logging and Debugging**
- Developed and implemented a comprehensive server resource monitoring and alerting system for a medium-sized e-commerce website hosted on Linux servers
- Implemented an alerting mechanism within the Bash scripts. When resource usage exceeded predefined thresholds, the scripts would trigger email notifications to the system administrators, providing them with detailed information about the issue
- Developed a suite of Bash scripts to monitor server resources, including CPU usage, memory consumption, disk space, and network activity. These scripts utilized Linux commands such as top, df, and netstat to gather real-time data
- The system's focus on proactive monitoring, automation, and detailed logging significantly enhanced the e-commerce platform's reliability, uptime, and performance by at least 35%

Significant Highlights
- Involved in the complete Phase 1 development lifecycle of a customer care platform application named Speakeasy, created for the client Google
- Achieved the highest scores within the Computer Science Department, highlighting exceptional academic excellence throughout the final year of my Bachelor of Engineering studies
- The project titled 'Swarm Intelligence for Efficient Energy Management in MANET' was chosen from a pool of various proposals and received funding from the State Government through the 'Karnataka State Council for Science and Technology' initiative

Skills
- **Programming Languages:** TypeScript | JavaScript | Python | Java | C
- **Web Applications:** React | Node.js | Tailwind | Vue.js | Next.js | HTML | CSS | jQuery | Vuetify
- **Framework:** Flask | Django | Maven | Heroku | Plotly Dash
- **Tools:** Confluence/Jira | Git | Jenkins
- **Cloud Services:** AWS | Azure | GCP | Heroku