

VAIBHAV SELKAR

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PROFESSIONAL SUMMARY

Product Development Professional who builds and scales products that unite engineering precision with user-centered design and measurable business impact. Strong foundation in software development, product strategy, and data analytics, with experience leading cross-functional teams through the SDLC: from concept to launch and continuous improvement. Improving system performance by 66%, increasing user adoption by 28%, and maintaining 99.9% uptime through data-informed decisions and agile execution.

EDUCATION

- Indian Institute of Technology, Madras** Sep 2024 – Present
Diploma in Data Science and Programming GPA - 8.75
- WorldQuant University** Feb 2023 – Aug 2023
Applied Data Science Lab
- Bajaj College of Science, Wardha** Jul 2017 – Dec 2020
Bachelor of Science

PROFESSIONAL EXPERIENCE

Software Engineer / Product Manager Apr 2024 – Present
Sanghamitra Business Incubator / Hyderabad

- Software Product Manager for full delivery of two SaaS platforms, managing roadmap, prioritization, and release cycles while mentoring a 5-member cross-functional team.
- Authored detailed Product Requirement Documents (PRDs) and utilized NotebookLM for structured research and documentation, improving alignment and decision-making consistency across design, engineering, and leadership teams.
- Led cross-functional development and market validation for consumer software products, translating business needs into technical execution.
- Architected multi-tenant backend systems with Node.js + Express; implemented secure JWT authentication.
- Engineered an in-house automated testing framework ensuring smooth feature rollouts, faster QA cycles, and a 40% improvement in user experience stability.
- Integrated Python-based AI modules using Flask servers for feedback on users' writing and data insights.
- Optimized API logic, decreasing latency by 66% (420 ms to 140 ms) and scaling system throughput.
- Launched lightweight onboarding flow, increasing new-user signups by 28%.
- Enabled 99.9% uptime through stateless autoscaling and load-balanced deployments.
- Expanded test coverage to 85%, lowering production defects by 60%.
- Automated CI/CD workflows with GitHub Actions and Vercel; lessened release cycle time by 45%.

Technologies: Python, Flask, React.js, Node.js, Express.js, MongoDB, PostgreSQL, AWS EC2, Vercel, GitHub Actions, JWT, REST APIs, Cross Functional Agile Development, Data Analytics

Product Development Associate / Manager Mar 2021 – Mar 2024
Sanghamitra Business Incubator / Wardha

- Coordinated end-to-end development and validation of consumer products, including water filters and air coolers, managing the full product cycle from concept to market release.
- Analyzed product performance, testing results, and customer feedback to improve design quality and drive production decisions.
- Collaborated with engineering and business teams to evaluate product efficiency, optimize manufacturing processes, and support market expansion.
- Conducted regional research and sales analysis to strengthen product-market fit and identify growth opportunities in Hyderabad and neighboring regions.

SELECTED SOFTWARE PRODUCTS

Ed-Tech Platform | Sanghamitra Business Incubator

Multi-tenant learning platform for teachers and students with analytics dashboards.

- Improved teacher workflow efficiency by 10+ hours/week and boosted feature adoption by 70%.
- Supported 10+ classrooms with 20+ students/session while maintaining 99.9% uptime.

Billing Application | Sanghamitra Business Incubator

Retail billing app with printer-integrated invoicing and inventory management.

- Decreased checkout time by 35% and billing errors by 40%.
- Processed 500+ invoices/day across tenants with efficient data caching and indexing.

Expenses Tracking App | Sanghamitra Business Incubator

Internal finance system for budget compliance and category-wise reporting.

- Enabled 30% faster audits and lessened overspending by 20%.

TECHNICAL SKILLS

Product & Management: Product Roadmapping, SDLC, Agile/Scrum, UX Research, KPI Analysis, Market Validation

Languages: JavaScript, Python, SQL, HTML, CSS

Frameworks: Flask, React.js, Node.js, Express.js

Databases: MongoDB, PostgreSQL, MySQL

Tools & Platforms: Git, GitHub, AWS EC2, Vercel, Postman, VS Code, Figma, Notion, JIRA, NotebookLM

Libraries: NumPy, Pandas, Scikit-learn, Matplotlib

Practices: REST APIs, JWT Auth, CI/CD Pipelines, JSON, HTTP/HTTPS, Data-Driven Product Development

CERTIFICATIONS

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| • Gen AI for Software Development (Coursera) | • Python (Saylor) |
| • Applied Data Science | • Data Analysis |
| • CS with Python (MIT) | • Statistics (Saylor) |
| • SQL (Udacity) | • Operations Management |