Bhavik Mehta

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Professional Summary

Full-stack software engineer with a shipped solo SaaS product (Habiwine.com) built on React, Node.js, Python, and AWS, featuring integrated OpenAI-powered recommendations. Experienced in distributed backend systems, CI/CD automation, and production debugging across Linux environments from 2 years at Amdocs. MS Computer Science at Seattle University (expected Jun 2026), seeking full-time roles in full-stack, backend, or AI-integrated product teams.

Education

Seattle University **Sep 2024 - Jun 2026**
Masters, Computer Science *Seattle, USA*

- **Coursework:** Artificial Intelligence, Distributed System, Machine Learning, Security in Computing

Savitribai Phule Pune University **Jun 2019 - Aug 2022**
Bachelor of Engineering, Information Technology *Pune, India*

Projects

Habiwine | https://www.habiwine.com **Mar 2025 - Jun 2025**

- Built and shipped Habiwine end-to-end as a solo full-stack SaaS product - React frontend, Node.js/Python REST APIs, and PostgreSQL backend - cutting average API response latency by 25% through query optimization and middleware refactoring.
- Deployed backend services on AWS EC2 and frontend on Vercel with environment-specific configurations, maintaining production reliability across the full stack.
- Integrated OpenAI APIs to generate habit pattern analysis and personalized goal plans, surfacing AI-driven recommendations to users through structured backend-to-frontend data flows.
- Designed normalized PostgreSQL schemas with indexed relational models and tuned queries, dropping data retrieval time by 30% under load.
- Configured Cloudflare edge caching and CDN routing across the full request path, reducing repeat-request backend load by 35% and improving global content delivery latency.

Personal Portfolio | bhavikmehta.dev **Mar 2026 - Apr 2026**

- Built a personal portfolio and technical blog on Next.js 16, React 19, TypeScript (strict mode), and Tailwind CSS v4, deployed via Vercel with automated CI/CD on every commit to production.
- Developed an MDX-based content pipeline with frontmatter parsing and publish-flag gating at static-site-build time, enabling draft workflows without exposing unpublished posts.
- Designed a modular CSS custom property design system spanning 8 section-level color themes, validated at build time to prevent token drift across components.
- Instrumented PostHog analytics with scroll depth tracking, section engagement events, and click heatmaps to capture interaction signals for iterative UX improvements.
- Integrated an AI-assisted development workflow using Claude Code with task-scoped sub-agents and custom skill files, accelerating implementation velocity while retaining full architectural ownership.

Technical Skills

- **Languages:** Python, TypeScript, JavaScript, Java, SQL, C/C++
- **Frontend:** React, Next.js, Vue, Angular, Redux, Tailwind, CSS, Framer Motion
- **Backend & APIs:** Node.js, Django, FastAPI, Spring, GraphQL, REST APIs, Express
- **AI / ML:** OpenAI API, PyTorch, CUDA, TensorFlow, LangChain, NumPy, Pandas
- **Cloud & DevOps:** AWS, Azure, GCP, Lambda, Docker, Kubernetes, Terraform, CI/CD, GitHub, Actions, Vercel
- **Databases:** PostgreSQL, MongoDB, Redis, MySQL, NoSQL, Snowflake, Kafka, Supabase, Prisma
- **Tools & Workflow:** Git, GitHub, Perforce, Jira, Figma, VS Code, Linux

Experience

Virtual Math Labs | *Software Developer Intern* **Aug 2021 - Dec 2021**

- Developed modular backend components in Python and JavaScript using OOP principles and structured data modeling, reducing defect density by 20% across internal testing cycles.
- Deployed and maintained Linux-based backend services using shell scripting, process management tools, and containerized workflows, improving stability across staging environments.
- Optimized application performance by profiling API endpoints, refactoring database queries, and debugging inter-service communication, reducing request-handling latency across critical paths.
- Contributed to peer code reviews, technical documentation, and Jenkins-based CI/CD pipelines, ensuring reproducible builds and structured deployment workflows.

Amdocs | *Functional Test Engineer* **Sep 2022 - Jul 2024**

- Built and maintained Python-based automation frameworks to validate distributed enterprise backend services written in Java, scripting end-to-end integration tests that caught 30% more regression defects before production release.
- Debugged runtime and service-level failures across Linux environments by analyzing application logs, process behavior, and inter-service dependencies, accelerating root-cause identification during high-severity production incidents.
- Integrated automated test suites into CI/CD pipelines using Jenkins, enabling faster release cycles and strengthening deployment stability across distributed execution environments.
- Partnered with backend developers and product stakeholders during defect triage, translating technical findings into actionable code-level fixes and contributing to reliability improvements in enterprise-grade software.