Jerin Stephen Benedict

Senior Software Engineer | Full Stack Development and Developer Experience

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Senior software engineer with 9+ years of industry experience across full-stack development, developer platforms, and automation. At TCS, modernizes Backstage, builds developer workflows, and supports GitHub Copilot governance. Previously led technical delivery for an enterprise automation platform spanning document processing, microservices, and visual workflow tools.

Professional Experience

Tata Consultancy Services Feb 2026 – Present

Software Engineer, Developer Experience (DevEx) | Chennai

- Modernized the Backstage developer portal by migrating application, documentation, and entity pages to the new frontend system and resolving migration-related UI issues.
- Delivered GitHub Copilot access lifecycle improvements, including Backstage self-service requests, seat provisioning, usage monitoring, inactive-seat revocation, and rollout documentation. Piloted a dashboard for Copilot adoption, usage, and cost.
- Built and tested an n8n workflow that converts Slack thread reactions into structured Jira stories, maps Slack users to Jira accounts, and posts confirmation in-thread. Investigated reliability issues in the reaction-triggered workflow.
- Automated inactive-user cleanup across Jira and Microsoft Entra ID, supported developer-tool access, and helped retire unused Azure DevOps repositories and pipelines after migration.
- Supported platform governance through Copilot hook restrictions and token analysis, OpenTelemetry configuration, Dependabot ownership visibility, GitHub code-scanning permissions, and Slack alerts for Terraform drift.
- Built a local GitHub Copilot toolkit with reusable skills and agents for Backstage development, covering planning, implementation, migration, and validation with human review.
- Contributed to Backstage screens for skills, agents, and instructions and a migration from MUI to Backstage UI. Both changes are in review.

ZF Commercial Vehicle Control Systems India Ltd Jan 2022 – Jan 2026

Senior Software Engineer and Project Lead | Immer.AI | Chennai

- Led technical delivery for Immer.AI, an enterprise platform for intelligent document processing and robotic process automation (RPA).
- Separated OCR workers from the REST API and introduced a first-in, first-out queue so lengthy document jobs could run independently of interactive requests. Used socket communication between services.
- Built document extraction workflows using Python, Docling, PaddleOCR, and locally hosted LLMs. Worked on field mapping and Outlook automation for document intake.
- Built a drag-and-drop Automation Studio with Electron and React Flow for designing RPA workflows.
- Addressed security findings in HTTP request handling, credential storage, and backend encryption. Supported Azure DevOps CI/CD for the platform.

Professional Experience Continued

Infonovum Software & Consulting Pvt. Ltd Apr 2017 – Jan 2022

Software Developer and Designer | Chennai

- Built a financial analytics reporting tool and created R18, a reusable JavaScript UI library that powered its interactive dashboards.
- Contributed to administration and data segregation frameworks that supported privacy requirements for enterprise applications.
- Built an automated data-loading framework for CSV, TSV, and Excel files with audit trails.
- Delivered custom business applications using React, Express, and SQL databases, working with clients to clarify requirements and shape delivery.

Solution Technologies Jan 2015 – Mar 2017

Freelancer and Trainer | Trichy

- Delivered full-stack web and automation projects for clients and led training in web development and automation tools.

Selected Projects

HappyQ Developed a clinic workflow product covering patient registration, appointments, queue management, and billing.

Web CRM Built a React and Node.js application backed by PostgreSQL and deployed it on Google Cloud.

IoT automation Built an ESP8266-based industrial automation prototype with an Express backend.

Technical Skills

Full stack TypeScript, JavaScript, Python, PHP, React, Node.js, Express, Next.js, Electron, React Flow, REST APIs

Platform and cloud Backstage, Backstage UI, MUI, GitHub Enterprise, GitHub Actions, Terraform, Azure, Azure DevOps, Google Cloud, OpenTelemetry, Grafana, CI/CD

AI and automation GitHub Copilot, n8n, Jira, Slack webhooks, Ollama, Docling, PaddleOCR, WebLLM, RPA, Selenium, Puppeteer

Data and security PostgreSQL, MySQL, MongoDB, Microsoft Entra ID, OAuth, SSO, vulnerability remediation

Education

B.Voc, Software Development and System Administration St. Joseph’s College, Trichy | 2014–2017

Graduate coursework in Computer Science Alagappa University, Karaikudi | 2021–2023