ABHINAV SANJAY SWAMI

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PROFESSIONAL SUMMARY

Graduated from renowned BITS Pilani, Passionate Fullstack Engineer with 3 years of experience at Telus International (Including 1 year of internship), delivering production-grade software and scalable systems. Expertise spans React, GoLang, Node.js, and PostgreSQL, with strong fundamentals in microservices, secure REST APIs, and system architecture. Demonstrated impact through performance tuning, mentorship, and internal tooling. Proven ability in CI/CD ownership, observability with New Relic, and delivery of machine learning-powered features. Experience spans Ground Truth Studio (GTS), Fine-Tune Studio (FTS), and currently Bespoke Technical Solutions (BTS).

PROFESSIONAL EXPERIENCE

Software Engineer - Fullstack 1   *Oct 2025 - Present*
Abnormal AI, Bengaluru

- Onboarded rapidly and contributed to system-level components within the first month.
- Optimized the **Github Workflow** run for the frontend codebase.
- Took ownership of **PagerDuty** on-call responsibilities by week three, demonstrating strong debugging skills and production readiness.
- Delivered a full end-to-end **GoLang + React + TypeScript** customer facing feature within the first month.
- Enhanced Grafana dashboards and alerting systems, improving observability and reducing issue-triage time.
- Optimized LLM layer labelling code performance, reducing load times and improving overall application efficiency.
- Provided technical support to internal users, ensuring quick and effective issue resolution.
- AI Assisted creation of technical specification documents by translating business requirements into clear, actionable development tasks.

Software Development Engineer - Fullstack 1   *June 2022 - Oct 2025*
Telus Digital, Bengaluru

- **React**, **TypeScript**, Vanilla JS, Manipulated Vanilla JS code, which was initially written in angular, took the client side rendered html, css, js files and manipulated it to dangerously set the html and scripts into the DOM, via dom manipulation and render it in current React Setup.

- Designed and developed the entire 26 postgres table backend schema, frontend dashboard and Go scoring pipeline to score over 500,000 submissions daily ensuring scale.
- **Mentored 4 interns — all secured PPOs; also led onboarding, KT, and "code with me" sessions for new SDE-1s.**
- Conducted rigorous code reviews including for SDE-2 and SDE-3 for Pull Requests and Retool apps.
- Led **daily standups** in a rotating scrum leadership model for a 6-member team—serving as **standup lead every 6th fortnight**.
- Developed and maintained **internal utilities** like a **CSV Split Utility** and **Internal Use Tool** widely adopted across teams for high-speed, repetitive operations.
- Built fullstack form submission + scoring system in React and Go, both Front End and Back End used by 5000+ raters. Designed backend architecture with DLQs, queues, and Postgres scoring logic.
- **NextJS** Newbie in NextJS setting up **Sentry Integration,** handling client and server side pages in conjunction with NextJs Router.
- Owned and optimized **CircleCI pipelines** — reduced pipeline running time from 20 to 10 minutes by intelligently splitting long-running steps and optimizing test execution order. Used parallelization in containers as well to help make the process smoother. Regularly investigated build failures, maintained pipeline health, and contributed to **deployment rollback** safety nets.
- Integrated **Auth0** for secure user authentication flows — managed rules, direct password-based logins, and microservices for user provisioning and email workflows.
- Ensured security in user-facing services with **JWT-based auth**, secure token management, and sanitized inputs to prevent common web vulnerabilities.
- Set up **Sentry** and **New Relic** in Next.js app — tracked SLIs/SLOs and reported bottlenecks during on-calls.
- Used tools like **Cursor** AI, **ChatGPT**, **Copilot**, **Claude**, FuelIX. -> (5 bots, 1 confused human)
- Gained hands-on experience in System Architecture and Micro-Service Management.
- Contributed to the improvement and optimization of the Partner Portal on Retool.
- Worked on the Audio Annotation Tool, involved in job creation, validation, and upload within the system workflow.
- Created a dashboard that helped prevent 30 minutes worth of annotator man-hour loss, per annotator during system downtime.

EDUCATION

BITS Pilani - Pilani Campus   *2018 - 2023*
  B.E. (Hons.) Electrical and Electronics Engineering + M.Sc. (Hons.) in Physics   CGPA: **8.6/10**
  Department of Electrical and Electronics Engineering

Pace Junior Science College Andheri (W)   *2015 - 2027*
  HSC Board Maharashtra Top 1%   CGPA: **8.29/10**

National English School ICSE - Virar (E)   *2014 - 2015*
  10th Class School Topper - AIR 10 Cumulative   CGPA: **9.76/10**

SKILLS

- **Languages:** GoLang, Python, TypeScript, JavaScript, HTML5, CSS
- **Frontend:** React, Next.js, Vanilla JS, DOM APIs, TailwindCSS
- **Backend:** Node.js, Express, GoLang, REST APIs
- **DevOps:** CircleCI, Docker, Kubernetes, Git, Linear
- **Cloud & Infra:** AWS EC2, S3, Lambda, Auth0, Sentry, New Relic
- **Database:** PostgreSQL (Advanced Schema Design), Query Optimization, Redis
- **Security:** OAuth2, JWT, Auth0 Rules, XSS/CSRF Protection
- **Testing:** Vitest, Jest, Functional & Unit Testing
- **Architecture:** Microservices, System Design, Internal Tooling
- **Collaboration:** Mentorship, Agile Scrum, KT Sessions, Code Reviews

PROJECTS

- **End-To-End Simulator Platform:** Built a hybrid rendering system in React to inject Angular-bundled JavaScript, HTML, and CSS into the DOM using advanced manipulation techniques like `dangerouslySetInnerHTML`. Enabled seamless integration of legacy Angular modules in a modern React app.
- **Cron Jobs in Python**: Developed Python scripts to run as Cron jobs on EC2 instances, optimizing external database CRUD operations, reducing query time significantly.
- **Custom Solutions with Retool**: Delivered end-to-end client solutions using Retool, including the development of a low-code utility dashboard to minimize man-hour loss during system downtimes.
- **Machine Learning Model Fine-Tuning**: Enhanced the whisper-large-v3 audio-model's efficiency by 5% for Hindi using PEFT and LoRA, reducing the Word Error Rate.