VIVEK ANAND

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9+ yrs backend engineer with deep **0→1 experience** across **3 startups**. Scaled high-throughput systems to **10M+ users**; **system architecture,** infrastructure modernization, and engineering standards across teams

SKILLS

Languages/Frameworks - Python, NodeJS, Kafka, Redis, RabbitMQ, PostgreSQL, MySQL, MongoDB, Kubernetes, Django, TypeScript, TypeORM, SQLAlchemy, FastAPI, Golang, LangGraph, Pi, Cloudflare, MCP, Codemode
Strengths - System Architecture, Product Thinking, Performance engineering, Applied AI, GenAI, Data Pipelines

WORK EXPERIENCE

Lead Engineer, Backend - Virtual Internships Dec 2024 – Current

- Building the platform to be **AI first** for all users and backoffice operations team
- Developing **PMS agent** to talk to interns and host companies via text, email & calls
- Led a backend **team of 4 engineers** in developing a next-generation B2B internship platform, architecting complex product requirements and integrating AI capabilities
- Orchestrated a zero-downtime **AWS to GCP migration**, reducing annual cloud infrastructure costs by $50,000
- Implemented a semantic search **recommendation algorithm** for matching interns, improving CTR by 35%
- **Decommissioned Kafka** to cut cloud costs by 1500$ pm; introduced integration testing using **Testcontainers, Metabase** for business and operations teams to pull in data; **Sentry** for error reporting

Technical Lead - Barq Mar 2023 - Dec 2024

- Joined as **Founding Engineer**, built core services from **scratch, scaling to 10M+** fully KYCed users
- Optimized the authentication service, the most scaled in Barq, achieving **P95 of < 5ms** and the highest throughput of **10k RPS**
- Led a **5 member Accounts Pod**, overseeing **customer identity** and authentication services, and aligning technical execution with business and compliance requirements
- Pioneered **9 core backend services;** introduced **Kafka, Apache Airflow, and Tyk API Gateway** in the org
- Enhanced customer contact management by developing a highly performant service that maintained a **P95 of 30ms for users** with 30k+ contacts

SDE II Backend - Innovaccer Aug 2019 - Mar 2023

- Authored Patient Profile Sync Job, **syncing 10M+ records in 20 mins** to enable Patient 360 feature, boosting revenue from **$50K to $10M**
- Developed **Patient 360, User Management, Video Calling application, and Referral service** from scratch, supporting company growth to $3.2B valuation

SDE I - Paysense (Acquired by PayU) Feb 2018 – Jul 2019

- Built the **repayment service** and data pipeline from **Postgres to Amazon Redshift**. Scaled the lending platform product from about **100k loans to 1 million loans**

SDE I - Ethereal Machines Aug 2017 – Feb 2018

- Joined as **Founding Engineer**, authored services to **control the 3D printer** from a browser via real-time communication using **WebSockets, Tornado, and RabbitMQ**

Open Source Developer - Google Summer of Code May 2015 – Aug 2017

- Made **>170 commits** to **Pagure**. Contributed for **more than 2 years** and wrote **Pagure Importer** using **Click**

EDUCATION

Indian Institute of Information Technology, Allahabad (B.Tech - Information Technology) Jul 2013 – Jun 2017