SUBRAT PANDEY

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SKILLS

- **Technical Languages:** Python, Java, C#, JavaScript, TypeScript, SQL
- **AI:** OpenAI, LangChain, RAG, Prompt Engineering
- **Framework/Libraries:** React, Node.js, Flask, Django, Spring
- **Dev Tools:** Postman, Git, Android Studio, Figma, Power BI

Database: MongoDB, MySQL, PostgreSQL
ML: Keras, NLP, Deep Learning, sci-kit
Cloud Technologies: AWS, GCP
Web Technologies: HTML, CSS, Bootstrap

WORK EXPERIENCE

Algorizin, Inc.
Full-Stack Software Developer
Remote, USA
Jan 2024 – Present

- Engineered the Self-Employed OPT Eligibility Checker Tool, an interactive application utilizing **React**, **Node.js**, and **TypeScript** to evaluate candidates' eligibility for Self-Employed OPT via an advanced questionnaire, processing over 850 assessments within two months post-deployment
- Leveraged NLP techniques to fine-tune a **GPT Model** using structured datasets from **PostgreSQL** database to create a context-aware, user-friendly chat interface, which increased **user engagement and signups by 25%**
- Built an automated notification system to alert candidates about their eligibility status, leveraging **Amazon SES (AWS-SDK)** for email alerts and **Firebase Cloud Messaging (FCM)** for push notifications
- Redesigned the dashboard UI using **Tailwind CSS, Bootstrap,** and React, boosting site engagement time by 20%
- Collaborated with a globally distributed team of 7 developers, QA engineers, and product managers following the **Agile Scrum methodology**

Newfound RiseUp Fund
Software Engineering Intern
Remote, USA
Jun 2024 – Sep 2024

- Automated the grant application process by developing **Python automation scripts** to preprocess, filter, prioritize, and sort 214 potential grants, reducing manual workload by **50%**; used **cron (for MacOS, Linux)** and **Task Scheduler (for Windows)** to periodically run the scripts
- Revamped the website across 20+ pages using **WordPress and HostGator**, incorporating **SEO** practices like **XML sitemap generation** to elevate organic traffic by 15% while ensuring 100% content accuracy
- Streamlined intake processes by consolidating multiple forms into a single source with Google Forms and WordPress CMS, enhancing data processing efficiency **for 700+ applicants** annually
- Optimized email communication systems for **300 clients** by resolving attachment forwarding issues, increasing storage capacity by 25%, and implementing cost-effective solutions via **Google Workspace and TechSoup**, ensuring seamless communication among clients and HUD-certified agents

Google, *Google Cloud Engineering Team*
Software Engineering Intern
Sunnyvale, CA
May 2023 – Aug 2023

- Authored **two technical design documents** detailing **system architecture**, technical implementation, and **software quality testing,** ensuring the successful completion of both internship projects
- Developed a web performance monitoring system for approximately **2000 pages in Google Cloud** by defining performance budgets, saving user-defined budgets for various performance metrics, and establishing a mechanism to compare budgets with page audit results through the Lightrider tool
- Integrated an automated alerting system using the **IssueTracker API** to notify engineers of budget failures, generating diagnostic reports for rapid decision-making
- Utilized **Angular**, **TypeScript, Boq, & dependency injection** to integrate Happiness Tracking Survey in Google Cloud's Content Management System for approximately **54,000 cloud employees**

Google, *Merchant Communications Team*
Software Engineering Intern
Mountain View, CA
May 2022 – Aug 2022

- Engineered Flume (Java) data pipeline using **ProtoBuf, Borg, GCL, Mendel, and Spanner** to track merchant trends over time for estimated **500,000 US merchants**
- Visualized **3 million trend data points** in scatterplot dashboards using optimized **GoogleSQL** scripts and **F1 query** engine
- Innovated and standardized a procedure for future developers to track data from millions of global merchants, enhancing the Google Shopping platform experience by **7%** and boosting revenue by **15 million dollars**

Capital One
Machine Learning Researcher
Remote, USA
Jan 2022 – Apr 2022

- Led a team of 4 students in collaboration with a professor to detect anomalies in radio frequency signals within a WiFi dataset, preprocessing binary files for deeper analysis
- Utilized the first four statistical moments and generated scatterplots to visualize data distribution, assessing linear separability for comprehensive insights; implemented a **Kernel SVM model and a Sequential Neural Network** using the **Keras Sequential API,** achieving 85% training and testing accuracy in anomaly detection

PROFESSIONAL CERTIFICATIONS

- **AI Developer Specialization – Professional,** IBM, 2025
- **Building Gen AI-Powered Applications with Python,** IBM, 2025
- **Python for ML & Data Science Masterclass,** Udemy, 2025
- **Generative AI: Prompt Engineering,** IBM, 2025

EDUCATION

Fisk University, *Bachelor of Science, Computer Science*
GPA: 3.95/4.0
Nashville, TN
Graduated: May 2024