# Fenil Gandhi

## PYTHONISTA | AUTODIDACT

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## SKILLS

|  | Proficient | Comfortable |
|---|---|---|
| **Programming Languages** | Python3.10, PostgreSQL | C, HTML, BF ( esoteric ) |
| **Frameworks** | Flask, Celery, Pandas, Automation Scripting | React |
| **Deployment Tools** | AWS (ECS, EC2, SQS, Lamba, API Gateway, Route53) | Firebase, Docker |

## INTERESTED IN

Product Engineering    |    Software Reliability Engineering    |    Automation Engineering

## WORK EXPERIENCE

➤ **The Downtown Club**, **DevOps Engineer**                                      **May 2022 - Jul 2023**
  **Tech Stack  : Python 3.10, AWS , Flask , Postgres, Shopify**
  - Spearheaded design and implementation of the organization's backend infrastructure, including mobile apis, ecommerce order processing, search services, analytics & monitoring services, ETL pipelines, ensuring robust operations for 100k users.
  - Developed and scaled an automated event processing pipeline, handling 50k daily events, ensuring seamless data processing, search indexing, and efficient customer order notifications, while incorporating robust failure handling and auto-retry mechanisms.
  - Collaborated with data engineering team for optimizing and deploying the data science services like recommendation service, product classification models and enrichment models.

➤ **Juvoxa**, **Python Engineer**                                      **Sep 2020 - May 2022**
  **Tech Stack  : Flask, Postgres, Celery, Docker, Python3.8**
  - Developed and maintained backend services with over 70+ apis, serving data to both mobile and web applications, optimizing performance lags to achieve a p99 latency of 0.5 seconds.
  - Engineered a robust event processing pipeline using Celery & Postgres, enabling efficient execution of asynchronous tasks, data synchronization pipeline, and timely user notifications.
  - Optimized the search functionality to remarkably enhance the user experience, reducing the p90 latency from 8 seconds to 0.3 seconds.
  - Streamlined development processes by establishing CI/CD pipelines, integrating end-to-end testing, and seamless deployments using Docker and Rancher

- ➢ **[p5.js](#), OpenSource Contributor**                                     Mar 2020 - May-2020
  **Tech Stack  : Javascript, Mocha**
  - – Improved unit test cases and added 84 new tests handling edge cases leading to overall increase in test cases coverage by 2.5%
  - – Proposed a standardized template for creating inline documentation, ensuring consistency and clarity among the contributors and users of the library
  - – Enhanced functionality and performance of 10 methods in the DOM module by updating them to ES6 standards and handling missing cases

- ➢ **[MagentaBi](#), Freelance Product Engineer**                            Mar 2019 - Nov 2019
  **Tech Stack  : Python3 , Flask , MYSQL , React**
  - – Pioneered the development of MagentaBi's backend architecture
  - – Designed a tool for extracting, minifying about 100 GB of data per month from ERP on daily basis, pushing to master databases with remote management features, automated updates.
  - – Optimized MYSQL procedures  for on-demand analytics charts, replacing backend data processing reducing response time by 50%.

- ➢ **[Pivoting Softwares Ltd](#), Backend Developer**                        May 2018 - Jan 2019
  **Tech Stack : Django , React , MySQL , Python3**
  - – Authored backend services for a fintech product with high-value transaction management.
  - – Implemented binary generation tool which converted backend code to executable binary files before deployment for Django.
  - – Responsible for implementing customer transactional flows from specs to production.

## OTHER KEY PROJECTS

- ➢ **QuadCopter, B.E. Final Year Project**                                    Aug 2018 - Jun 2019
  - – Successfully assembled an FPS Quadcopter through comprehensive hardware component research and analysis. Conceived and optimized a controlling software for the same.

- ➢ **Yowsup Client, Open Source Project**
  - – Integrated a terminal-based WhatsApp Console Client with a Django WebUI.
  - – Added automation features to the console-based client for mass communication.

## EDUCATION QUALIFICATION

| DEGREE | UNIVERSITY | INSTITUTION | YEAR | CGPA / % |
|---|---|---|---|---|
| Post-Graduation | GTU | L.D. College of Engineering | 2017  -  2019 | 8.37 |
| Graduation | GTU | GEC, Gandhinagar | 2013  -  2017 | 7.86 |
| HSC | GSEB | H. B. Kapadia | 2011  -  2013 | 84.5% |

## EXTRA-CURRICULAR ACTIVITIES

**Network Maintenance** | 2018
Successfully Deployed OpnSense Firewall and Proxy for College Network and Maintaining It.

**Introduction to Programming** | 2018
Taught 2 labs of 60 students each, fundamentals of Programming with practical examples for 6 months.

**Introduction to Python** | 2016
Organized and Taught a 4-month introductory course on Python.

**Catch Him If You Can**  | 2015
 Lead Technical Support during the 2-day State level Workshop on "Ethical Hacking".