

# Ayush Bairagi

Full Stack Python Engineer

📍 Indore, India   ✉ abairagi311@gmail.com   ☎ +91 9131083495   🖱 ayushbairagi.com   in ayush3298   🌐 ayush3298



A **self-taught, full-stack Python developer** with a “**Can do**” attitude. I started my journey with being a freelancer in college then joined a startup as a first engineer and led the way to be a senior software engineer and built a strong team for the company with 40+ individual contributors and leaders.



## SKILLS

- |                             |                  |                |                         |
|-----------------------------|------------------|----------------|-------------------------|
| • Python                    | • Django         | • FastAPI      | • Django Rest Framework |
| • AWS                       | • GCP            | • Celery       | • MongoDB               |
| • SQLAlchemy                | • Elastic Search | • Flask        | • Gitlab/BitBucket CI   |
| • Microservice Architecture | • PostgreSQL     | • Unit Testing | • TDD                   |



## CAREER SUMMARY

- Worked on end to end development with agile methodology; Right from requirement analysis to Documentation, Designing, Development, Debugging, Implementation to deployment and post-production issues.
- Hands-on experience in troubleshooting and debugging issues under high load in the production environment.
- Experienced in reviewing code written in multiple languages on GitHub, GitLab and BitBucket to catch critical issues and ensuring code quality and security measures before deployments.
- Learned various technologies on the go and managed teams working in different technologies and domains.
- Developed simple and maintainable solutions for complex problems to achieve the solution with reliable quality.



## PROFESSIONAL EXPERIENCE

### Senior Software Engineer, CubexO Software Solutions

Oct 2018 – present | Indore

- Evaluated new tools, technologies and design patterns by creating POC's to come up with trustable solutions for the clients which led to 60% more clients conversions.
- Communicate and collaborate with multi-disciplinary teams of engineers, clients, and stakeholders daily.
- Mentored and led the team to develop high quality, maintainable, robust, scalable and user-facing solutions with the highest code coverage and standardization.
- Developed a centralized system to monitor health, logging and alerts about any breakdown for all the systems delivered and managed by the company, which led to more satisfied clients.
- Developed reusable, modular, extendable and easily maintainable frameworks and libraries to be used by internal teams to deliver solutions faster without reinventing the wheel with Python and JavaScript for Django, FastAPI and ReactJS.
- Managed backup/recovery, configuration management, and maintenance for databases; automated tasks like user account creation, database management, and system maintenance using Shell and automation scripts, reducing manual work by 200%.
- Gathered and backtested stock ticker data from the past 15 years using backtrader to find suitable Algo trading algorithms for the client and applied multithreading and concurrent programming to get real-time alerts to make a trade.
- Migrated monolithic architecture to fault-tolerant microservice architecture using gRPC.
- Developed IoT based system which allows users to send SOS alerts to concerned authorities with just a press of a button.

### Freelancer, Fiverr

Aug 2016 – Sep 2018

- Used BeautifulSoup and requests library extensively to build databases of products from a wide array of websites.
- Reverse Engineered Instagram to create a bot for social media marketing and helped creators to reach their audience. The creators gained up to 10x more engagement within a span of a few months.
- Communicated with clients to win their trust, understand their requirements and build solutions for them.
- Worked with clients across the globe, belonging to different continents and domains and delivered **85+ projects on Fiverr with a 4.9 Star rating.**

## PROJECTS

---

### ZPE Cloud

Technologies used:- **Python, Django, GCP, Kubernetes, Docker, Gitlab CI, Celery, Postgress, MongoDB, SonarQube, Redis**

- Implemented a customizable user alerting system on various levels so that users can get real-time information about their networking devices.
- Architect a Subscription-based access system for the platform which allowed the sales team to sell the product more effectively with unlimited configurations offered.
- Reviewed code authored by fellow developers which lead to overall system quality and stability and cached many critical issues before code gets deployed.
- Implemented SAML based OKTA authentication enabling the platform to provide secure and easy organisation-wide access.
- Reduced API response time by 60% by implementing NoSQL Database along with SQL.
- Implemented Elastics search to improve overall search on the platform and reduce the load on the database by 30%.
- Developed software-based simulators for devices to allow testing the platform more aggressively.
- Designed microservice to effectively update device information coming from Astarte triggers, which abled the platform to receive data from 20,000 devices in real-time.

### Deviare Africa

Technologies used:- **Python, Django, GCP, Shell Scripts, OpenStack, BitBucket CI, Zappa**

- Developed an end to end learning management system for companies to distribute courses from Coursera, Simplilearn to teams and individual employees with multilevel access.
- Build features, maintained codebase and created APIs for LMS with 10k+ active users.
- Build OpenStack based Sandbox-as-a-service, a key product for the company which allows learners to access lab resources and perform experiments without the hustle of setting up complex systems.
- Developed shell script for Linux system to communicate with APIs and manage the OpenStack VM more efficiently.
- Automated build and deployment process through, BitBucket CI and Zappa on AWS which reduced manual intervention in deployment by 100%.

### Betrics

Technologies used:- **Python, AWS, Lambda, DynamoDB, AWS Cognito, API Gateway, Postgres**

- Lead the team to develop Android, iOS, and web platforms from an abstract requirement document with a strict deadline.
- Implemented data-focused architecture with Lambda, DynamoDB, Serverless architecture, and web services with AWS.
- Developed a library to fetch data from different sources and aggregate it to be usable which helped users to place better bets.

## EDUCATION

---

**Bachelor of Computer Science and Engineering, MIT Mandsaur**

2015 – 2019 | Mandsaur, MP

## INTERESTS

---

Cycling | Reading | Automating Stuff with Code