

ANIL KUMAR H P

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with 5+ years of experience in the **Software Development Life Cycle (SDLC)**, specializing in **Backend development, Microservices, and Cloud technologies (AWS Serverless)**.

SKILLS

- **Programming Languages:** Python, JavaScript, HTML, CSS, SQL
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Frameworks:** FastAPI, Flask, Django, Express.js, Selenium
- **Cloud & DevOps:** AWS, Docker, Kubernetes
- **Tools & Libraries:** Pandas, NumPy, SQLAlchemy, boto3, unittest, pytest, Jest, Jira, React
- **Version Control:** Git (Bitbucket, GitHub, GitLab)
- **CI/CD:** Jenkins, GitHub Actions
- **Soft Skills:** Problem-solving, Team collaboration, Effective communication, Agile methodologies, Adaptability

EXPERIENCE

Career Break:

Oct 2023 - Current

- Took a personal career break to care for my father, who is battling blood cancer.
- Currently working on a project focused on hospital management, applying knowledge in Python, AWS, and database management to develop efficient, user-centric solutions for healthcare data workflows.

Ongoing project:

Hospital Management Microservices (2024 - Present) - Python, FastAPI, PostgreSQL, MongoDB, gRPC, Docker, Jenkins, AWS, GitHub Actions.

- **User Management service:** Handles registration, profiles, prescriptions, and patient records
- **Hospital Service:** Manages appointments, consultations, and admissions
- **Lab Service:** Schedules lab tests and manages reports/payments
- **Pharmacy Service:** Tracks inventory, processes orders, and delivery status
- **Notification System:** Enables asynchronous communication using gRPC
- **Emergency Chatbot:** Provides basic medical advice and triage suggestions via chatbot

Key Highlights:

- Designed the full architecture from scratch using Dockerized microservices
- Integrated gRPC for fast, low-latency communication between critical services
- Working on 90%+ test coverage with pytest for all services
- Set up CI/CD pipelines using GitHub Actions for each microservice, enabling automated tests and container builds on every commit.

Senior Software Engineer | Consultant - LogicHive Solutions Pvt Ltd, Bangalore, KA, IND Jan 2021 - Oct 2023

Projects:

Mobile Financing App - Python, JavaScript, Microservices, AWS Serverless, boto3, EDD, Jenkins

- Led a team of Python developers in enhancing serverless microservices application on AWS.
- Conducted daily Scrum meetings, ensuring clear communication and task prioritization.
- Implemented callback features, boosting application efficiency by 15%.
- Automated DynamoDB backups to S3 Standard-IA, reducing data storage costs by 30%.

Einston Lab Web App - Python, FastAPI, Selenium WebDriver, Microservices, Docker, Kubernetes, TDD, MongoDB

- Developed RESTful APIs to streamline and automate the deployment of Kubernetes applications, reducing deployment time and increasing deployment efficiency, leading to faster scalability across environments.
- Automated testing with Selenium, reducing testing time and improving code quality.

Investment App - Python, FastAPI, MongoDB, Docker, Pandas, NumPy, TDD

- Implemented Unit of Work and Repository patterns, reducing coding effort by 40%.
- Engineered financial calculator, enhancing data accuracy by 99%.

Cvat, Annotation tool (Backend) - Python, Django, PostgreSQL, Docker

- Integrated new annotation formats, reducing data validation errors.
- Improved system reliability by 25% through comprehensive unit testing.

Associate Software Engineer - LogicHive Solutions Pvt Ltd, Mysuru, KA, IND

Nov 2019 - Jan 2021

Projects:

7cbm E-Commerce portal - Python, FastAPI, Docker, MongoDB

- Developed asynchronous APIs using FastAPI to implement cart functionality and cache product data, improving response time and enhancing user experience through faster and more efficient data retrieval.
- Integrated Stripe for secure payment processing, streamlining the checkout process and reducing transaction failures, while ensuring PCI compliance and improving overall payment reliability.

Realtime Esports Gaming - Python, JavaScript, NodeJS, MongoDB

- Implemented asynchronous APIs with Node.js, improving efficiency by 30%.
- Implemented Python automation to fetch data from external APIs, perform complex calculations, and store the processed data for user consumption.

Full Stack Software Developer - Freelancer, Mysuru, KA, IND

Apr 2018 - Nov 2019

- Designed and developed a responsive e-commerce web application using React for the frontend and Node.js with Express for the backend.
- Implemented RESTful APIs for user authentication, product management, and order processing, enhancing user experience and functionality.
- Utilized MongoDB for data storage, implementing effective querying and indexing strategies to optimize performance.

EDUCATION:

Master of Computer Applications (MCA) - VTU PG Center, Mysuru, KA, IND

Graduated: Jan 2021

Bachelor of Computer Applications (BCA) - Sacred Heart College, Madanthyar, KA, IND

Graduated: Jun 2014

CERTIFICATIONS:

IBM Full Stack Software Developer: (Completed)

- <https://coursera.org/share/340d1dc1491f939ae4af1d4ce6a6c119> : Dec 30, 2024

AI Agents and Agentic AI in Python: Powered by Generative AI Specialization: (In Progress)

- Expected completion: Oct 2025

OTHER:

Leadership & Volunteering:

- Successfully organized the IT Forum Event as President of the IT department, overseeing event planning, coordination, and execution, while fostering student engagement and collaboration in the field of technology.
- Mentored junior developers and interns, providing technical guidance, fostering skill development, and ensuring successful project outcomes.