**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.