

# Aayush Kurup

## Software Engineer

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Software Engineer with expertise in backend development, integration, and database design, consistently delivering efficient solutions. Utilizes optimization strategies to achieve measurable results, completing over 6 projects with less than 10% bugs and 0 reopens. Skilled in addressing complex challenges and enhancing system performance

### WORK EXPERIENCE

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#### Software Engineer

Oct 2023 – Present

Saama Technologies, Pune, MH

Saama Technologies is a software company that uses AI-powered data analytics to help pharmaceutical and life sciences companies develop drugs and treatments faster.

- Developed and automated weekly application usage reports to support product team decision-making.
- Established and maintained data processing pipelines using AWS, ensuring timely data availability for critical tasks.
- Delivered bug fixes and enhancements to improve application functionality and user experience, collaborating closely with the product team.
- Implemented proactive monitoring by creating AWS CloudFormation alarms for infrastructure components, enhancing service reliability.

#### Software Engineer

Mar 2022 – Jul 2023

Squareboat, Gurugram, HR

Squareboat, leveraging its tech expertise, aids startups and MNCs in crafting beautiful, scalable digital products, driving positive change one product at a time

- Analyzed client product requirements, designed scalable databases, and developed backend services, integrating third-party packages for enhanced functionality in over 5 projects
- Influenced a diverse range of projects, including:
  - **Finemake**: Engineered a B2B e-commerce app, facilitating the purchase of highly customisable interior design hardware
  - **Hudle**: Played a pivotal role in developing a sports venue booking app, currently serving 1000-5000 daily active users, with a forthcoming leaderboard feature
  - **TV App**: Created a Flutter app for Android TVs, facilitating remote image slideshow management and broadcasting crucial information to 100+ company personnel
  - **Healify**: Crafted an exercise admin panel, enabling physiotherapists to add exercises and configure joint angles for virtual sessions resulting in enhanced virtual sessions and a 25% improvement in patient adherence to treatment plans
  - **Hero Vired**: Optimized backend with a Go-based middle tier which led to a 98% improvement in response time and programmed an internal service desk tool for an ed-tech platform
- Assembled an open-source project with three key features and delivered 55+ commits, demonstrating a commitment to the developer community

#### Assistant System Engineer

Jan 2021 – Mar 2022

Tata Consultancy Services, Remote

Tata Consultancy Services, headquartered in Mumbai, is a global IT services and consulting firm that leverages technology and business collaboration to foster change

- Achieved 90% SLA compliance by promptly fulfilling client-raised service requests
- Monitored software for 200+ users, enhancing experience and productivity through root cause analyses, software enhancements, and patches.

## EDUCATION

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**Sagar Institute of Science and Technology**, Bhopal, MP  
Bachelor of Engineering — Computer Science

Aug 2016 – Sep 2020

## SKILLS

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**Programming Languages:** TypeScript, JavaScript, Python, Go

**Databases:** MySQL, PostgreSQL, Mongo.db

**Frameworks:** Express.js, Nestjs, FastAPI, Flask, Gin, Next.js, React.js, Flutter

**Platforms:** AWS, Google Cloud, Digital Ocean, Firebase

## ACHIEVEMENTS

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**Attained the AWS Certified Cloud Practitioner Certification with a score of 813**

**Distinguished as a Grand Finalist at Smart India Hackathon 2019 - Software Edition among 400+ teams**

## PROJECTS

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### Fireshell

- Developed a Node.js-powered shell, published on the npm package registry, for executing real-time database and Cloud Firestore queries
- Achieved 1000+ downloads from NPM, attesting to its widespread usage
- Seamlessly integrated with Firebase Realtime Database and Cloud Firestore for efficient query execution
- Enabled simultaneous execution of multiple queries using a file input, boosting operational efficiency

Technologies used: Node.js and Firebase

Project source: <https://git.io/JTySk>

### ClassCapture

- Designed and implemented image-processing software for efficient attendance recording by detecting and identifying all faces in input images
- Significantly reduces attendance recording time to 1-2 minutes, compared to the manual process that typically takes 5-7 minutes
- Features a user-friendly and responsive website interface, ensuring accessibility
- Effectively manages attendance for various classes, streamlining administrative tasks
- Achieves face recognition without relying on large training data, enhancing versatility

Technologies used: Keras, Flask, HTML, CSS, JavaScript, Bootstrap