

BABIN B K

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TECH IMPACT SUMMARY

Full-Stack Software Engineer with 3+ years of experience in building scalable, secure cloud-native systems. Designed production systems for IoT and semiconductor ecosystems impacting millions of devices. Expert in Java, SpringBoot, AWS, and CI/CD automation. Strong collaborator with DevOps and testing teams to ship high-performance, maintainable solutions.

SKILLS SUMMARY

- **Languages:** Java, JavaScript, Bash, C/C++, Python, SQL, noSQL
- **Frameworks:** Dropwizard, SpringBoot, ReactJs
- **DevOps:** Docker, Jenkins, Git, Terraform, AWS CloudFormation
- **Tools:** Jenkins, Grafana, Docker, GIT, PostgreSQL, MySQL, MongoDB, SonarQube
- **Platforms:** AWS
- **Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

EXPERIENCE

• **Nagravision India Pvt. Ltd.** Bangalore
• *Software Developer (Full-time)* April 2022 - Present

• **Project: keySTREAM – Full-Stack Security Platform:**

- **Overview:** Designed and developed a full-stack security platform for semiconductor chip manufacturers, focusing on certificate management, FOTA (Firmware Over-The-Air updates), and key rotation for IOT devices. Leveraged **Java** for backend development and **Sequelize** for database management within a **microservice architecture**.
- **Automation:** Engineered an automated data cleanup system leveraging **SQL transactions** and **Quartz scheduler**, leading to a **25% decrease** in API processing time.
- **Automated Testing and Quality Assurance:** Migrated module tests from **ReadyAPI** to **pytest**, enabling faster test execution and eliminating dependency on proprietary licenses, reducing costs and increasing efficiency. Ensured comprehensive test coverage with **unit** and **Component tests**.
- **MATTER Portal:** Developed an ordering portal for semiconductor manufacturers to request PAI and MATTER certificates, automating certificate generation and delivery via Quartz scheduler.

• **Project: Asset Tracking Platform:**

- **Overview:** Designed and developed a robust platform integrating advanced technology engineering and real-time asset tracing, enabling seamless management of microservices, CI/CD automation, and IoT analytics. Leveraged **Java** for backend development and **Python** for automated testing, ensuring high-performance and scalable solutions.
- **Microservices and API Development:** Architected RESTful APIs using **Java**, incorporating **JWT authentication** and **reverse proxy (Nginx)** for secure and optimized request handling. Integrated **Sequelize** for efficient database management in a microservices environment.
- **CI/CD and DevOps Automation:** Configured **GitLab CI/CD** pipelines and **Jenkins** to automate build, testing, and deployment across multiple services. Deployed services in **AWS (ECS)** with **GitLab Runner**, achieving a **35% improvement** in deployment speed and efficiency.
- **Containerization and Infrastructure:** Utilized **Docker** for containerized application development, enabling seamless and reproducible development workflows. Engineered **multi-module architecture** with independent CI/CD pipelines for modular and scalable development.
- **Monitoring and Error Resolution:** Integrated advanced logging and monitoring solutions using **Grafana** and **OpsGenie**, reducing issue resolution time by **35%**. Incorporated **SonarQube** for static code analysis, ensuring high code quality and security.

EDUCATION

• **JAIN (Deemed-to-be University), Faculty of Engineering & Technology (JU-FET)** Bangalore
• *Bachelor of Technology - CSE, Cloud Technology and Information Security.* July 2018 - June 2022

Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Cyber Security, Networking, Databases

PROJECTS

- **Uber Application:** Developed a feature-rich Uber-like application using **Java** and **Maven**, demonstrating expertise in backend development, build automation, and **software engineering principles**. Delivered a **scalable** and maintainable solution with a focus on performance and reliability.
- **NovaChain:** Developed a blockchain-based application using **Python** and **Flask**, enabling decentralized transaction management and block mining. Designed and implemented a **proof-of-work** consensus mechanism, **transaction validation**, and **node synchronization** to ensure a secure and immutable ledger. Integrated RESTful APIs for mining blocks, adding transactions, and connecting nodes in a distributed network.

LANGUAGES

ENGLISH, HINDI, KANNADA