

# BHOOPESH R K

Software Engineer

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## PROFESSIONAL SUMMARY

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Results-driven Software Engineer with 2+ years of experience building scalable applications, real-time data infrastructure, and observability systems in the semiconductor domain. Proven track record of improving system performance by 50%, reducing downtime by 70%, and automating workflows that saved 100+ engineer-hours. Adept in Python, JavaScript/TypeScript, React, Node.js, and cloud-based monitoring stacks (Grafana, Loki, Prometheus). Passionate about clean code, developer tooling, and delivering on-time, high-quality software.

## WORK EXPERIENCE

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**Software Engineer** — [Recynergy Technology India Pvt. Ltd., Chennai](#) 2024 – Present

- ▶ Designed and developed scalable software applications, improving system performance by 50% and reducing unplanned downtime by 70%.
- ▶ Managed Advantest Cloud Solutions – Real-Time Data Infrastructure (ACS-RTDI), achieving 99% uptime through automated scripts, alert configuration, and 24/7 hot-line support for semiconductor test data operations.
- ▶ Enhanced Swiftest Watchdog monitoring system, increasing uptime coverage by 50% and reducing false alarm rate by 70%.
- ▶ Automated repetitive workflows via Shell and Batch scripts, saving 100+ engineer-hours across the team.
- ▶ Contributed to PDF Exensio Test Ops and DEX server for semiconductor analytics.
- ▶ Led 15+ code reviews, improving overall code quality by 80%; resolved 20+ complex production issues, reducing resolution time by 40%.
- ▶ Delivered 100% on-time releases through cross-functional collaboration; mentored 6 intern/junior engineers, accelerating onboarding and boosting team productivity.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, Java, C, C++, Bash/Shell, Batch Script, HTML, CSS

**Frontend:** React.js, Next.js, Bootstrap

**Backend:** Node.js, Flask

**Observability:** Grafana, Loki, Prometheus — multi-server monitoring & alerting

**Data Formats:** STDF, KDF, EDF — semiconductor test data parsing & analysis

**DevOps / Tools:** Git, GitHub, Linux, VS Code, Vercel, Android Studio

## PROJECTS

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**QC-Checklist Web Application** · [Python](#)

- ▶ Full-stack quality control tool enabling semiconductor test engineers to standardize setup and compliance verification workflows; deployed to production and actively used by the team.

**Semiconductor Test Data Parser Suites** · [Python](#), [STDF](#) / [KDF](#) / [EDF](#)

- ▶ Built 6+ modular Python suites to parse and analyze STDF, KDF, and EDF test data files; reduced analyst reporting time by up to 80% and eliminated manual data extraction bottlenecks.

**Multi-Server Observability Dashboard** · [Grafana](#), [Loki](#), [Prometheus](#)

- ▶ Implemented centralized real-time monitoring for 12 servers with custom alert rules, log aggregation via Loki, and live dashboards; significantly reduced mean time to detection and incident response.

## Test Flow Converter · *Python*

- ▶ Developed a Python based test flow converter for chroma tester; converting text files to spread sheets.

## EDUCATION

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**B.E. – Electronics and Communication Engineering** — [Nandha Engineering College](#)  
(Autonomous)

2019 – 2023

Anna University Affiliated · Erode, Tamil Nadu

## ADDITIONAL

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- ▶ Domain expertise: Semiconductor industry, ATE (Automated Test Equipment) systems, and test data analytics.
- ▶ Comfortable with on-call production support; experience providing 24/7 hot-line support for mission-critical infrastructure.
- ▶ Quick learner with hands-on exposure to new tools and frameworks in fast-paced startup environments.