

CONTACT

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PROFESSIONAL SUMMARY

Software Engineer with experience in full-stack development across diverse technologies. Proven track record of optimizing system performance, implementing solutions that enhance user experience, and quickly adapting to new technologies. Strong communication skills with demonstrated success in cross-team collaboration and Agile environments.

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, Python, Ruby, Embedded C, C, Bash
- **Frontend:** React.js, React-Native, Next.js, Svelte/SvelteKit, Electron.js
- **Backend:** Java Spring, FastAPI, Flask, PostgreSQL
- **Big Data & Cloud:** AWS, ElasticSearch, Grafana
- **Other:** Software Documentation, Code Optimization, System Integration, Cross-Team Collaboration

PROFESSIONAL EXPERIENCE

Software Test Engineer | March 2024 – Present

Trane Technologies

- Conducted comprehensive integration testing for Trane Link systems, ensuring software reliability and performance
- Developed and implemented test automation frameworks to improve efficiency and coverage of test procedures
- Applied software development expertise to create robust automation solutions for complex testing scenarios

Software Engineer Intern | January 2023– September 2023

Trane Technologies

- Developed a file compression system for embedded environments that significantly reduced OTA update transfer times
- Built a React-Native EIM API diagnostic page for technician app, enhancing field service capabilities
- Created an automated Grafana notification system for Microsoft Teams, improving team response times
- Designed comprehensive code diagrams and technical documentation to improve cross-team understanding
- Collaborated with Controls team to implement and integrate new features into existing systems
- Consistently delivered performant code with practical applications in Trane's production software stack

EDUCATION	University of Texas – Tyler Bachelor of Science in Computer Science Minor in Mathematics <ul style="list-style-type: none">GPA: 3.6/4.0Relevant coursework: Web Development, Database Management, Software Engineering, Data Structures & Algorithms
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PROJECTS	React-Native Diagnostic Application <ul style="list-style-type: none">Contributed to the development of a technician-facing API diagnostic interface within Trane's existing React-Native mobile application.Participated in the implementation of intuitive UI/UX design for field technicians to troubleshoot equipment issues more efficientlyTook part in the integration of backend systems to provide real-time diagnostic information and reduce service resolution times Embedded File Compression System <ul style="list-style-type: none">Participated in the design and implementation of a proof-of-concept compression algorithm that reduced OTA update package sizes.Leveraged Embedded C to optimize for resource-constrained environments while maintaining data integrity
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REFERENCES	Marco Rodriguez Manager Trane Technologies marco.rodriguez@tranetechnologies.com Rucky Paul Software Engineering Manager Trane Technologies rucky_paul@trane.com Keith Hackler Mechanical Engineering Manager Trane Technologies keith.hackler@tranetechnologies.com
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