

# Ricardo Faure

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## WORK EXPERIENCE

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### **Optum** | *Eden Prairie, MN*

Optum is a part of UnitedHealth Group, a Fortune 500 company, providing health services and technology solutions.

#### *Principal Software Engineer, TLCP* | **January 2020 - Present**

- Serve as technical lead for a team of 7 engineers, building and maintaining a Kafka as a Service platform utilized across the enterprise, enhancing the reliability of our product to 99.5% through the usage of Kubernetes Operators and robust infrastructure as code practices.
- Achieved a 52% increase in resource deployments in the past year through leveraging automated deployment and management patterns for scalability and efficiency.
- Achieved \$2.5 million in annual cost savings by analyzing and optimizing cloud products to reduce waste.
- Expanded service offerings to the cloud for data movement, handling over 20 petabytes of data.
- Collaborate with enterprise teams to prioritize platform stability and meet business needs through resource right-sizing, ensuring alignment with strategic goals.
- Designed and implemented a work stream feed for vulnerability scanning and remediation, enhancing visibility and accountability across engineering teams.
- Mentor and coach junior engineers in rotational programs to build future talent, fostering a culture of continuous learning and development.

#### *Technology Development Intern* | **January 2017 - August 2020**

- Contributed business-critical features to a monolithic application.
- Implemented automated unit and integration testing using Java Springboot and Groovy Spock frameworks.

## SKILLS & INTERESTS

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- **Technologies:** Kafka; Google Cloud Platform; Kubernetes; Docker; Amazon Web Services; MongoDB; Elasticsearch; Linux; Podman; Github; Github Actions; PagerDuty; Grafana; JFrog
- **Skills:** DevOps; Python; Golang; JavaScript; Java; C#; Terraform; CI/CD; Bash; Helm; Observability & Logging; APIs; Networking; Prompt Writing
- **Interests:** DIY Home Projects; Building Computers; Building Keyboards; Cooking; Lawncare; Snowboarding; Guitar; Weightlifting; Simulation Racing

## EDUCATION

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### **Iowa State University** | **December, 2019**

*Bachelor of Science, Computer Engineering & Minor, Cyber Security*

## PERSONAL PROJECTS

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### [SafetyNet](#)

- Built a decentralized iOS chat service that doesn't require an internet connection to run.
- Leverage wifi bands on iOS devices to open connections between cell phones running this application in the vicinity, creating a network for transferring encrypted messages between users.

### [Sheet Vision - Open-CV sheet music reader & playback](#)

- Architected AWS Cloud Infrastructure for Sheet Music storage and processing.

### Javascript-based Ray Tracing Engine

- Build Lighting and Camera view vectors for rasterisation.
- Implement complex shape rendering.
- Achieve full ray-tracing to run in the browser.