

# Zeran Johannsen

## PROFILE

Detail-oriented and mission-driven Software Engineer with 5+ years of experience in full-stack development and hands-on machine learning/AI. Specializes in building scalable applications and AI-driven solutions to solve complex problems. Experienced with Python, JavaScript, cloud technologies, and end-to-end ML workflows. Passionate about leveraging AI for social impact, including contributions to Polycreek.org, a platform dedicated to combating online child abuse.

### CONTACT

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Johnstown, Colorado

### EDUCATION

December 2020  
**B.S. Business Management**  
*Magna Cum Laude*  
Arizona State University  
Tempe, AZ

### KEY SKILLS

- **Languages:** Python, JavaScript (ES6+), TypeScript, SQL
- **Frameworks & Libraries:** React, Node.js, Express, Django, TensorFlow, PyTorch, scikit-learn
- **Databases:** PostgreSQL, MongoDB, Redis
- **DevOps & Cloud:** AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins)
- **Tools:** Git, Jira, VSCode, Postman, Linux
- **Other:** REST APIs, Microservices, TDD, Agile/Scrum, ML Model Deployment, Data Pipelines

### Projects

- [www.polycreek.org](http://www.polycreek.org)
- Expense Tracker App
- Job Board Platform

### PROFESSIONAL EXPERIENCE

#### Software Engineer

Arrupe Jesuit High School - Denver, CO  
July 2022 – Present

- Developed and maintained web-based applications to streamline school operations and improve staff workflow.
- Implemented automated data processing pipelines to manage student records, reducing manual work by 40%.
- Collaborated with teachers and administrators to design and deploy software solutions for reporting and analytics.
- Introduced AI-based tools for performance analysis and predictive scheduling to optimize resources.

#### Junior Software Engineer

Airbagit - Mesa, AZ  
March 2018 – June 2022

- Built and maintained backend APIs using Python and Node.js, serving enterprise clients with high data volumes.
- Designed and deployed ML models for predictive analytics, improving operational decision-making by 20%.
- Implemented unit and integration tests to ensure reliability and maintainability of software solutions.
- Assisted in migrating legacy systems to cloud infrastructure on AWS, improving scalability and uptime.

#### President & Co-Founder

Polycreek - Remote  
February 2018 – Present

- Led development of an AI-driven platform to detect online child abuse and grooming patterns.
- Designed and deployed machine learning models using TensorFlow and scikit-learn for real-time content analysis.
- Managed a cross-functional team of developers, researchers, and volunteers to scale platform impact.
- Collaborated with law enforcement and nonprofit organizations to ensure ethical and effective deployment.
- Oversaw cloud infrastructure and ML pipelines for reliable, scalable AI model deployment.

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### **Assistant Store Manager**

Walmart - Mesa, AZ

May 2016 – January 2017

- Supervised daily operations and led a team of 15+ staff, ensuring smooth workflow and high customer satisfaction.
- Managed inventory, scheduling, and performance metrics to improve efficiency and reduce stock discrepancies.
- Trained and mentored new employees, increasing team productivity and retention.
- Implemented process improvements that reduced operational errors and enhanced store performance.