

# Kaleb Burris

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Software Engineer and Sophomore at The University of Alaska Fairbanks studying Computer Science and Mathematics. Specializing in systems engineering, artificial intelligence, and recreational mathematics.

## SKILLS

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**Programming Languages:** C, C++, CUDA, Java, Rust (Actix Web, Polars, Rayon, Rocket, Serde, Tokio), Python (Boto3, TQDM, Pandas, Pytorch)

**Tools & Tech:** Apache Gremlin, AWS (API Gateway, CloudFormation, DNS, DynamoDB, Lambda, Neptune, S3, Sagemaker, Secrets Manager), CLI (Bash, Nu), Docker, Git, Jira,  $\text{\LaTeX}$ , NoSQL, SQL

**Machine Learning:** DeepLearning4J, Machine Learning Java (Personal Project), TensorFlow

## EDUCATION

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### University of Alaska Fairbanks

Bachelor of Science. Majoring in Computer Science. Minor in Mathematics. Fairbanks, AK  
2020 - Present

### Matanuska Career and Technical High School

Building Pathway. Pursuing Computer Science. Wasilla, AK  
2016 - 2020

## EXPERIENCE

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### Alaska Satellite Facility

*Student Intern*

The University of Alaska Fairbanks, Fairbanks, AK

September 2022 - Present

Software development on the NASA/ESA DAAC contract.

- *Sentinel-1 Superseded* - REST API for easy customer access to superseded data. Written in Rust and deployed on AWS via CloudFormation and GitHub Actions.

### Personal Projects

- *Multiplicative Persistence* - Recreational mathematics project with an emphasis on data processing.
- *Arbitrary Precision* - Arbitrarily large integers. Written in Java as an addition to *Multiplicative Persistence*.
- *Machine Learning Java* - Machine learning project written in Java. Learned to apply research papers to projects.
- *Gossip Glommers* - Distributed Systems challenge with a heavy emphasis on interoperability, serialization/deserialization, and network throughput.
- *Ray Tracing in a Weekend* - Introductory ray tracing project, used to learn Rust and implement multithreading/async code and later parallelism through the GPU.