

# 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,  $\LaTeX$ , 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

Worked on the NASA/ESA DAAC contract related to the Sentinel-1 mission.

#### *Sentinel-1 Superseded*

REST API for easy customer access to superseded data. Written in Rust and deployed on AWS.

### Personal Projects

*Multiplicative Persistence* - Recreational mathematics: data science.

*Arbitrary Precision* - Arbitrarily large integers: memory and time optimizations.

*Machine Learning Java* - Machine Learning: neural networks, stochastic descent, deep learning.

*Gossip Glommers* - Distributed Systems: serialization/deserialization, network management, throughput optimization.

*Ray Tracing in a Weekend* - Ray Tracing: graphics, parallelization.