Kaleb Burris

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

SKILLS

Programming Languages: C, C++, CUDA, Java, Rust (Actix Web, Dioxus, 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

University of Alaska Fairbanks   *Fairbanks*, AK
Bachelor of Science. Majoring in Computer Science. Minoring in Mathematics.   2020 - Present

Matanuska Career and Technical High School   *Wasilla*, AK
Building Pathway. Pursuing Computer Science.   2016 - 2020

EXPERIENCE

Alaska Satellite Facility   The University of Alaska Fairbanks, *Fairbanks*, AK
Student Intern   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- *Sentinel-1 Superseded* - REST API for easy customer access to superseded data.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 focusing on data processing.

- *Arbitrary Precision* - Arbitrarily large integers written in Java for *Multiplicative Persistence*.

- *Machine Learning Java* - Machine learning project applying research to code.

- *Gossip Glommers* - Distributed Systems challenge focusing on interoperability, serialization/deserialization, and network throughput.

- *Ray Tracing in a Weekend* - Introductory ray tracing project written in Rust.

- *Arrata-APP* - Desktop application written in Rust using Dioxus.