

Mate Kopaliani

Computer Science / Math (minor)
Kutaisi International University, Georgia

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EDUCATION

•Kutaisi International University

Computer Science, Math Minor

3-Year Program

Bachelor's Degree

EXPERIENCE

•.NET Back-End Developer Intern

Working on backend development using .NET framework

suliko.ge

SULIKO AI Startup

•Teaching Assistant

Linear Algebra course support and student mentoring

Kutaisi International University

CURRENT RESEARCH

•Bachelor's Thesis

Fully Verified Floating Point Unit (FPU) Construction in Verilog

2024

In Progress

– Designing IEEE-754 compliant FPU with comprehensive verification testing in Rust

TECHNICAL SKILLS

Programming Languages: Java, Python, Rust, C++, JavaScript, SQL (MySQL, PostgreSQL), Verilog

Web Technologies: HTML/CSS, React, Spring Boot

Tools & Technologies: Git, Linux, LaTeX, Typst

Mathematics: Linear Algebra, Linear Optimization, Probability, Real & Numerical Analysis

Hardware Design: Pipelined CPU, FPU, Cache Systems

Languages: Georgian (Native), English (Advanced)

CERTIFICATIONS

•Java Development with Spring Boot

Professional development certification

EPAM

•Backend Programming with Django

Python web development certification

New Horizons

•PCAP - Certified Python Associate

Python programming certification

Python Institute

PERSONAL PROJECTS

•Image Edge Detection Algorithm

Edge detection implementation using data interpolation and numerical methods

[GitHub Page](#)

– Python, NumPy, Linear Algebra, Numerical Analysis

•Sturm-Liouville & Trajectory Analysis

Numerical solution of differential equations with ball trajectory calculations

[GitHub Repository](#)

– Python, Numerical Analysis, DBSCAN, Implicit Runge-Kutta Methods

•Full Stack Library Management System

Complete web application for book management with user authentication

[GitHub Repository](#)

– MySQL, Java Spring Boot, React, TypeScript

•**Multi-language Hotel Management Interface**

[*GitHub Repository*](#)

Responsive hotel management frontend with internationalization support

– JavaScript, React, CSS, Kinde Authentication API

•**PinguChat - Multi-user Chat Application**

[*GitHub Repository*](#)

Real-time communication system using Java sockets and multithreading

– Java, Multithreading, Socket Programming, Stream API