# Gent Maksutaj

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## Education

**Dartmouth College** — Hanover, NH
*Bachelor of Engineering in Electrical and Computer Engineering* — *Expected May 2027*

**Colby College — GPA: 3.94** — Waterville, ME
*Bachelor of Arts in Computer Science and Mathematics*

- Relevant Coursework: Data Structures and Algorithms, Operating Systems and Cloud Computing, Programming Languages, Linear Algebra, Statistics, Probability, Scientific Computing
- Clubs and Honors: UCP Software Engineering Fellow (Uber), AI4ALL Ignite fellow, Presidential Scholar, Dean's List, Colby Hackers Club, Colby CS Advisory Board

## Experience

**Software Development Engineer Intern** — Incoming May 2025 – Aug 2025
*Remitly* — *Seattle, WA*

- Incoming Software Engineer at Remitly working on the Lending team

**Software Engineering Intern** — Dec 2024 – Present
*Tirana Center of Technology* — *Tirana, Albania*

- Built a full-stack Spring Boot app integrated with Microsoft AdventureWorks, boosting training efficiency by 45% for 50+ student developers
- Developed 15+ RESTful APIs with Java Spring MVC and Spring Data JPA, reducing frontend onboarding time by 35%
- Achieved 90% test coverage using JUnit and Mockito, introducing best practices adopted across all student projects
- Designed and implemented microservices architecture with AWS ECS, enhancing system modularity and establishing enterprise-level development standard

**Computer Science Research Assistant** — May 2024 – Aug 2024
*Colby College* — *Waterville, ME*

- Developed machine learning and deep learning models to predict water quality across 1300+ Maine lakes using 40+ years of environmental data
- Implemented various data imputation techniques including MICE, machine learning approaches, and GANs to address missing data challenges
- Achieved best performance using Random Forest Regressor with MICE imputation recording an average RMSE of 0.953 and MAE of 0.739, predicting Secchi Disk Depth up to less than one meter in the worst case
- Utilized Python libraries (Scikit-learn, DARTS, Optuna) for model development, time series forecasting, and hyperparameter optimization

**Computer Science Teaching Assistant** — Feb 2024 – May 2024
*Colby College* — *Waterville, ME*

- Graded weekly projects and delivered detailed, personalized feedback to over 30 students in CS152, promoting significant coding improvement.
- Offered one-on-one guidance that helped raise final grades by 40%, enhancing student understanding and performance.

## Projects

**Youtube Watch Party Application** | *Node.js, Express.js, React.js, Websockets, MongoDB, Typescript*

- Built a collaborative Watch Party web application using modern web development frameworks, enabling users to watch synchronized videos together in real-time
- Utilized Nodejs, Expressjs, and MongoDB to build a robust backend that would support 100s of unique users in the same watch party session
- Implemented an in-memory cache solution to reduce database API calls by 40%
- Made use of Websockets to enable real-time interactions, allowing users to play, pause, and seek videos simultaneously, achieving a synchronization accuracy of under 100 milliseconds across all participants

**Social Space** | *React.js, Node.js, MongoDB, GraphQL, Heroku*

- Used various database program technologies such as Node.js/MongoDB/GraphQL and React.js for the front end to develop a Full Stack Reddit-like web application
- Utilized JWT auth to implement user authentication and an enhanced visual interface
- Stored the user's posts, comments, upvotes, etc. by integrating MongoDB
- Deployed the project by using Heroku CLI

## Technical Skills

**Programming Languages**: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
**Web Technologies**: React.js, Node.js, Express.js, GraphQL, JQuery, MongoDB, WordPress
**Developer Tools**: Git, Postman, Docker