

# Giorgi Gogitidze

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## EDUCATION

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### Caldwell University

09/21 – 05/25

- Bachelor of Science in Computer Science
- Presidential Scholarship (\$30,000/y), Dean's List (2021 - 2023), Honors in Computer Science.
- Selected Coursework: Artificial Intelligence, Design & Analysis of Algorithms, Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Calculus 1, Calculus 2, Full-Stack Web Development, Operating Systems.

## WORK EXPERIENCE

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### Machine Learning Research Assistant

03/22 – 05/25

The Cog AI lab | Caldwell, NJ

Leveraged Python, TensorFlow, Keras, and Matplotlib to develop and visualize the performance of models, resulting in 40+ interactive visualizations and a 50% improvement in model transparency.

- Improved GPT-2 training speed by 20% and reduced response repetition by 23%, increasing lexical diversity from 0.499 to 0.616 through reinforcement learning integration.

#### Peer-reviewed publications/presentations:

- Gogitidze, G. & Veksler, V. D. (2024). Using a GPT with Reinforcement Learning for More Personalized or Targeted Text Generation. 28th annual conference of the Consortium for Computing Sciences in Colleges, Northeastern Region (CCSCNE).

## PROJECT EXPERIENCE

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### Snippedia – Code Snippet Sharing Platform

10/24 - present

Full-Stack Software Engineer | Deployed Web Application

Developed and deployed a secure, full-stack web application that allows developers to share, search, and bookmark code snippets with GitHub OAuth authentication and full mobile responsiveness.

- Designed and implemented the backend architecture using Go (Fiber), MongoDB Atlas, and JWT-secured REST APIs, enhancing data security and authentication workflows.
- Built a responsive React.js interface with TailwindCSS, integrating real-time filtering and search indexing to manage over supporting a catalog of 240 tagged code snippets during testing, with indexed search functionality.
- Integrated GitHub Actions with Vercel and Render to automate deployments, reducing deployment time by over 70% and enabling rapid iteration across 20+ feature pushes.

### CodeBoard – Real-Time Collaborative Code Editor

03/25 - present

Full-Stack Software Engineer | Deployed Web Application

Engineered a live multi-user code editor supporting 10+ programming languages with WebSocket-based real-time collaboration and session management, adopted for classroom demos and interview prep tools.

- Developed a scalable WebSocket-based Node.js + Express backend for real-time code sync with <100ms latency.
- Engineered a frontend using React and Monaco Editor to enable live code editing with syntax highlighting for JavaScript, Python, Java, C++, and more.
- Implemented secure role-based access control between instructors and viewers using token-based session management.
- Tested stable performance for up to 10 concurrent users and 100+ real-time edits per session in demo environments.

### TaskFlow – Real-Time Task Management Platform

02/25 - present

Full-Stack Software Engineer | Deployed Web Application

Led the design and development of a task management system with drag-and-drop task boards, real-time synchronization, and secure multi-user authentication for agile teams.

- Built Socket.io-based real-time task sync backend using Node.js and MongoDB, tested with over 50 tasks and mock user sessions to validate concurrency and board state accuracy.
- Integrated JWT authentication and a modular Express backend to ensure secure, scalable API access and consistent user session management.
- Delivered a seamless user experience through a React frontend with React DnD, TailwindCSS, and Context API, enhancing usability during demo testing.

## SKILLS

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**Languages & Frameworks:** Python, Go, JavaScript, CSS3, Node.js, React.js, Express.js, TailwindCSS, REST APIs, WebSockets.

**Tools:** MongoDB Atlas, Git, GitHub, Vercel, Render, Visual Studio Code, Ubuntu, Postman, Figma, Chrome DevTools.