Giorgi Gogitidze

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EDUCATION

Caldwell University   Caldwell, NJ
Bachelor of Science in Computer Science   *Sep. 2021 – May 2025*

- 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 I & II, Full-Stack Web Development, Operating Systems

RESEARCH EXPERIENCE

Machine Learning Research Assistant   Mar. 2022 – May 2025
The Cog AI Lab, Caldwell University   *Caldwell, NJ*

- Developed and visualized deep learning models with Python, TensorFlow, and Keras, producing 40+ interactive visualizations and improving model transparency by 50%
- Improved GPT-2 training speed by 20% and reduced response repetition by 23%, raising lexical diversity from 0.499 to 0.616 through reinforcement learning integration
- Presented and co-authored publication: *Using a GPT with Reinforcement Learning for More Personalized or Targeted Text Generation*, CCSCNE 2024

PROJECTS

Snippedia – Code Snippet Social Platform   Oct. 2024 – Present
Go, MongoDB, React, TailwindCSS

- Developed a full-stack web application for sharing, searching, and bookmarking code snippets with GitHub OAuth authentication and full mobile responsiveness
- Built backend with Go (Fiber), MongoDB Atlas, and JWT-secured REST APIs
- Implemented responsive React.js frontend with TailwindCSS, enabling real-time filtering and indexed search with sub-200ms query response times during testing.
- Automated CI/CD pipelines with GitHub Actions, Vercel, and Render, cutting deployment time by 70%

CodeBoard – Real-Time Collaborative Code Editor   Mar. 2025 – May. 2025
Node.js, React, Express, WebSockets

- Engineered live multi-user code editor with WebSocket-based collaboration and session management
- Achieved sub-100ms latency with a scalable Node.js + Express backend
- Built React frontend with Monaco Editor, enabling syntax-highlighted editing for 10+ languages
- Implemented role-based access control between instructors and viewers, and tested stable performance with up to 15 concurrent users and 250+ real-time edits per session in demo environments.

TaskFlow – Real-Time Task Management Platform   Feb. 2025 – Apr. 2025
Node.js, MongoDB, React, Socket.io

- Built Socket.io backend with Node.js and MongoDB, tested with 50+ tasks and mock sessions to validate concurrency
- Integrated JWT authentication with Express backend, enabling secure access control for 10+ concurrent users during testing
- Developed React frontend using React DnD, TailwindCSS, and Context API, validated in demo testing

TECHNICAL SKILLS

Languages: Python, Go, JavaScript, TypeScript, SQL, HTML5, CSS3
Frameworks & Stacks: React.js, Node.js, Express.js, MERN Stack, TailwindCSS, Bootstrap, Firebase
Machine Learning & AI: TensorFlow, Keras, Reinforcement Learning, LSTM, Scikit-learn
Data Science & Analysis: Pandas, NumPy, Seaborn, Matplotlib, Time Series Analysis, Regression Analysis, A/B Testing, Classification, Statistics
Databases & APIs: MongoDB, REST APIs, WebSockets, Socket.io, GitHub OAuth, JWT Authentication
Developer Tools: Git, GitHub, Docker, Figma, Chrome DevTools, Postman, Vercel, Netlify