Brekke Andrew Green

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Full-Stack Software Engineer | Backend Engineer | Data Engineer

I'm a software engineer with a skill set built through years of working as a research engineer. Through my 3+ years of engineering experience, I proved my ability to rapidly master new skills and develop innovative solutions that decrease execution time by up to 50%.

WORK EXPERIENCE

Optimal Dynamics • New York, New York, United States
Software Engineer (Python, Docker, Django, AWS, Pandas) • 09/2021 - 12/2022
- Built custom Python integrations for 9+ customers, feeding millions of data points into the AI Engines
- Refactored code to improve Redis caching strategies and applied concurrency which cut execution time by 50%
- Collaborated in designing first customer-facing integration REST API for live customer data feed
- Established team code review process, improving code readability/usability and streamline knowledge transfer

Katmai Government Services • Fort Rucker, Alabama
Musculoskeletal Injury Prevention and Protection Team – U.S. Army Aeromedical Research Lab

Research Engineer (MATLAB, Python, R) • 03/2019 - 12/2020
- Utilized principles of statistics, linear algebra, and calculus in analyzing and modeling collected data
- Acquired and analyzed research data, ensuring complete and accurate documentation of protocol execution
- Developed a research division coding repository complete with coding best practices

Disarray • New York
Multiplayer online Boggle Game built with a retro styling

Full-Stack Engineer (MongoDB, Express.js, React, Node.js, Socket.IO, Heroku)
- Generated real-time synchronous multiplayer games using Socket.IO to connect various players to a game server
- Leveraged React to allow users to input words into the game with various techniques (click vs drag), increasing user accessibility
- Designed game logic in JavaScript using Object-Oriented Programming paradigm

SKILLS

Agile Methodologies, Artificial Intelligence (AI), AWS, Cloud Computing, Computer Science, Data Engineering, Docker, Git, HTML5, JavaScript, Node.js, Python, React, Ruby on Rails, Software Engineering, SQL, Web Applications

EDUCATION

Software Engineering Bootcamp
App Academy • 04/2021

Bachelor of Science (B.S.) in Kinesiology
Penn State University • 08/2015