

# ALEXANDER GROMAN

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<http://www.alexanderdev.info/>

## CAREER OBJECTIVE

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I am pursuing a challenging early career software developer role at a reputable company, where I can leverage my expertise in Python and JS to assemble technical output in machine learning and design. I seek to participate in innovative projects with LLMs and Cloud Platforms and manipulate real-world infrastructure through data alongside other talented individuals and teams.

## SKILLS

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**Skills:** Python, Go, JavaScript, Linux/Unix, HTML/CSS, Java, Git, React.js, AWS, Machine Learning, Ruby, Databricks, Google Cloud Platform, JUnit, Node.js, Pytorch, RDBMS, REST APIs, SCRUM, Web Development, Docker, MySQL, Oracle, Microsoft Azure, Agile, Data Analysis, Data Structures & Algorithms

## PROJECTS & OUTSIDE EXPERIENCE

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### Predictive Weather Analysis App

- Created a web app/application linking to a weather channel API that would display and predict the weather for a user based on their location then parsed data to recommend a list of activities near the user.

### Unix Simplified Filesystem

- Developed a simplified Unix-like operating system in C
- Incorporated core features such as process scheduling, a hierarchical file system with basic I/O, and a command-line shell with basic input/output piping capabilities.

### AI ChatBot

- Led a small team to engineer a sophisticated AI chatbot for casual one-on-one conversations using PyTorch in tandem with HuggingFace libraries and transformers.
- Chatbot load was hosted on huggingface servers and integrated into a single-page site

### iOS Wellness App

- Developed a user-friendly yoga and wellness app designed to streamline class bookings and registrations for a local client through local freelance development.
- App functionality includes browsing available yoga sessions, booking classes, tracking and accepting payments, as well as connecting with Wix to support secure logins

## PROFESSIONAL EXPERIENCE

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### BeachRunners

*Software Developer*

**Falls Church, VA, USA**

*Jan 2022 - Jan 2023*

- Spearheaded the creation and upkeep of a delivery service app utilizing React.js, drove 50% creation of a customer base with a sharp increase in active users and an overall 40% reduction in user-reported issues for the application. I also engineered and deployed a scalable application system for user data storage and request handling on a demo scale; decreased data retrieval time by 10% and increased data handling efficiency by 5%. Related to increases in efficiency also regularly produced data visualization tools.
- Leveraged insights from upper management and analysts to solve technical problems and limitations; and created high-fidelity UI designs that improved demo group user scores by 20% while reducing total support inquiries. Automated support inquiries and feedback into dashboards to visualize and more efficiently categorize and respond to data.

### Finra

*Software Developer Intern*

**Rockville, MD, USA**

*Apr 2021 - Sep 2021*

- Created and optimized application monitoring dashboards, providing real-time insights and reducing priority incident response time by 10%, enhancing operational efficiency for FINRA's technology team.
- I worked on two primary projects as an intern, one was to produce a Python application that links with Azure AD, S3, through the Microsoft Graph API to route standardized alerts to developer groups through MS Teams, saving hours of manual alert prioritization and delivery.
- The second task was to develop a ReactJS web app to analyze and visualize alert trends for alert and ticketing applications, saving up to 5 minutes daily per query in identifying actionable issues.

## EDUCATION

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**University of Maryland - College Park**

*Bachelor's, Computer Science*

**Aug 2020 - May 2024**