Rohan Ahuja

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Objective

Aspiring software engineer with interdisciplinary academic background in computer science and psychology, seeking to leverage a diverse technical skill set to contribute to a dynamic team at a forward-thinking company.

Education

- **University of Maryland, College Park**
  - B.S. in Computer Science (In Progress, Expected Graduation: August 2024)
  - B.S. in Psychology (Completed)
  - B.S. in Physiology and Neurobiology (Completed)
  - Recognized as a College Park Scholars Life Sciences Program Inductee

Technical Skills

- **Languages:** Java, C, Python (Advanced); OCaml, Rust, HTML, CSS, SQL (Intermediate); Dafny, Haskell (Basic)
- **Frameworks/Tools:** OpenCV, Flask, JSON, Git, Docker
- **Data Analysis:** Pandas, NumPy, SciPy, Matplotlib, Scikit-learn
- **Machine Learning:** TensorFlow, PyTorch
- **Web Development:** HTML, CSS, JavaScript
- **Entrepreneurial Skills:** Business Development, Marketing, Client Relations

Projects

- **University Rover Competition (UMDLoop Team)** *Fall 2023 - Present*
  - Implemented ML models for autonomous navigation, reducing travel time by 20%.
  - Spearheaded the development of motor control software for a Mars rover prototype, focusing on adaptive drive control during challenging terrain navigation.
  - Integrated real-time sensor data exchange to enhance the rover's efficacy, versatility, and responsiveness.
- **Enterprise Product Search Tool (Northrop Grumman Hackathon)** *Spring 2023*
  - Designed and implemented a web app for efficient product retrieval from large databases.
  - Employed advanced TF-IDF algorithms for improved search relevance and accuracy.
  - Enhanced user experience by implementing a responsive design and intuitive UI.
- **Twitter Self Harm Risk Analysis (Bitcamp Hackathon)** *Spring 2023*
  - Created an AI-driven application to monitor and analyze Twitter feeds for potential harmful content using NLP techniques.
  - Implemented robust data privacy practices to ensure ethical standards were maintained.
  - Developed a user-friendly dashboard for real-time monitoring and analysis of social media content.

Work Experience

- **Sunny Daze Smoke Shop, Westminster, MD** *August 2019 - Present*
  - Automated administrative processes in Google Sheets, increasing operational efficiency by 40%.
  - Designed and managed the store website to showcase store locations and offerings, leading to a 15% increase in foot traffic.
  - Streamlined employee recruitment and onboarding by virtualizing recruitment, reducing time-to-hire by 25%.
- **Nexus Audiovisuals** *June 2017 - Present*
  - Founded and operated a digital marketing agency, securing three local enterprise clients within the first year.
  - Developed and implemented comprehensive web solutions, contributing substantially to clients' growth goals.