Zain Ali

Greater New York Area

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Education

Rutgers University   *New Brunswick, NJ*

Bachelor's Degree in Computer Science and Psychology   *Jan. 2022*

- Coursework: Data Structures; Algorithms; Computer Architecture; Databases; Intro to AI; Discrete Structures I and II; Software Methodology; Principles of Programming Languages; Linear Algebra; Social Psychology; Cognition

Experience

RUAutonomous   *New Brunswick, NJ*

Software Engineer   *August 2018 - Present*

- Develop, and test computer vision processes in Python for object detection, localization, and classification during a mission.
- Improved task success rate by 66% and increased working assignments by 150% to ensure product completion.
- Mentor 7 incoming members on the languages, technologies, and hardware the team utilizes.

HackRU   *New Brunswick, NJ*

Research and Development Organizer   *January 2020 – Present*

- Maintain and support hackru.org by updating old code and normalizing website design for over 1000 attending students.
- Implement new client-facing features in React to the frontend utilizing APIs created by sub-teams while maintaining design language.

Rutgers American Institute of Aeronautics and Astronautics (AIAA)   *New Brunswick, NJ*

Executive Board   *August 2018 - Present*

- Ensure that more than $8,000 of funding from the School of Engineering is maintained and provided for over 60 students in the 4 competition teams within Rutgers AIAA.

Projects

Monitored Analysis for Extreme Expressions (MAXX) (github.com/zain08816/MAXX)

Python | Google Cloud | Twitter

- MAXX is a CLI Application which analyzes digital expression (i.e. Twitter posts) for patterns, using Google's Natural Language Processing, which may relate to extreme states of mind. This data is visualized for human interpretation.

Flightinator (github.com/zain08816/Flightinator)

Node.js | React | Express | AWS | SQL

- Fliginator is a flight booking app built in React with a backend built using Express and an Amazon Relational Database Service.

RUWater (github.com/zain08816/RUWater)

HTML | JavaScript | Google Maps | hackRU Fall 2018 "Best Rutgers Hack"

- RUWater is a web app showing all public water refill stations around Rutgers University by utilizing the Google Maps API to mark GPS locations in order to encourage refillable water bottle use.

QRme (github.com/zain08816/QRme)

iOS | Swift | SwiftUI

- QR me is an iOS app that allows the simple exchange of contact information utilizing the vCard format in a QR code. Anyone with a QR scanner on a smartphone can instantly add you as a contact using the generated QR code.

Skills

Programming	Python, Java, JavaScript, Node.js, Swift, React, SQL, Bash, OpenCV, TensorFlow
Technologies	Git, REST API, iOS, Google Cloud Platform, Xcode, AutoCAD, Autodesk Inventor