

Bonaventure Raj

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Education

University of North Carolina at Charlotte

B.S. IN COMPUTER SCIENCE

- Minor : Mathematics - Concentration : Data Science
- Cumulative GPA: 3.98/4.0

Charlotte, NC

Aug. 2017 - Dec. 2020

Skills

Programming Languages Python, Java , C/C++, HTML/CSS, MySQL, R

Software Tools and Skills iPython, Numpy, Pandas, Relational Databases, RESTful API's , AWS

Work Experience

Fidelity Investments Inc.

SOFTWARE ENGINEER INTERN

- Developed and enhanced a conversational bot that provides fund/investment operational data for internal and external clients using AWS tools and natural language processing.
- Efficiently queried and parsed data from multiple fund and performance databases to return information using web scraping and server connection tools.
- Development via Agile methodology. Presented to multiple upper management and clients in different organizational groups.

Durham, NC

May. 2018 - Aug. 2018

Data Structures & Algorithms Teaching Assistant

UNC CHARLOTTE DEPARTMENT OF COMPUTER SCIENCE

- Teach Data Structures and time complexity pertaining to algorithms in Java to a class of 126.
- Offer one-on-one mentoring for students.

Charlotte, NC

Dec. 2018 - Dec. 2019

Research and Projects

Undergraduate Research - Graph Based IoT Bus Arrival & Departure Analysis

UNC CHARLOTTE, DORODCHI RESEARCH LAB

- Quantitative analysis of arrival and departure times of UNC Charlotte buses to reduce error within forecasted arrival times using IoT.
- Examine current bus routes during peak traffic intervals to determine significant paths using shortest path algorithms and related Graph Theory.

Charlotte, NC

Aug. 2019 - Current

Undegraduate Research - Integrated Analytics Parking Deck

UNC CHARLOTTE, DORODCHI RESEARCH LAB

- Initiated an IoT research project using raspberry pi's to collect, store, and analyze traffic severity data in parking decks at UNC Charlotte.
- Analysis of traffic flow using several Python libraries and a Multilayer Perceptron Neural Network Machine Learning Model to find future traffic occurrences.

Charlotte, NC

Aug. 2017 - Aug 2018

Virginia Tech Hacks

HYPER-INTELLIGENCE CARDS PROJECT

- Used Wikipedia's API to recursively scrape data from Wikipedia and store data into AWS RDS server.
- Used MicroStrategy's hyper intelligence cards to display definitions of terms through chrome's extension panel.
- Placed 4th out of 61 teams overall at the VT Hacks Competition.

Blacksburg, VA

Feb. 2019

Extracurricular Activities

Charlotte Analytics Club

FOUNDER & PRESIDENT

- Biweekly meeting to teach data visualization, analysis, and predictive modeling using Python and R.
- Bring in Data Scientists in the industry to present cutting edge problems that they face in the field.

Charlotte, NC

Jan. 2019 - Current

Association for Computing Machinery

ICPC COMPETITOR

- Competed in the Intercollegiate Programming Competition at Duke University where groups of students compete against time to solve 8 competitive programming problems.

Charlotte, NC

Aug. 2017 - Current