Nomair Yawar Bhatti

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➤ Education

Purdue University, West Lafayette, IN — *Expected Graduation: Fall 2022*

Bachelor of Science in Computer Engineering

- Cumulative GPA: 3.48/4.0
- Dean's List and Semester Honors — *Fall 2019, Spring 2020, Fall 2020, Spring 2022*

➤ Technical Skills

- **Programming/Markup Languages:** C/C++, Python, Java, MATLAB, XML, Verilog, ARM Assembly, LaTeX
- **IDES:** Android Studio, Visual Studio Code, PyCharm, Jupyter Notebook, Google Collaboratory, Replit
- **Softwares:** Github, Jira, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Fusion 360

➤ Work Experience

Digital.ai, Lafayette, IN — *May 2022 – Aug. 2022*

Software Engineer Intern – Application Security Team

- Developed an Android mobile application in XML, Java and C++ using Android Studio
- Utilized RESTful APIs to assist with user navigation and display weather conditions at destination
- Encrypted the application customer database in Java to avoid threat actors to gain access to confidential data
- Followed the agile development cycle and Jira to estimate story points and track mobile application progress
- Participated in code reviews to make the code quality based, sustainable and easy to understand for the customer

iD Tech, Campbell, CA — *July 2021 – Aug. 2021*

Programming Instructor (Remote) – Python for Gaming and Machine Learning

- Prepared lesson plans to conduct weeklong coding sessions at a STEM camp for 20+ individuals
- Discussed effective teaching strategies with instructors weekly to deliver quality instruction
- Provided instruction on object-oriented, neural networks, numpy, random and pygame libraries
- Evaluated student performances by work on the final project and various coding challenges

Undergraduate Teaching Assistant – College of Engineering, Purdue — *Jan. 2021 – May 2021*

ENGR 13200 – MATLAB Programming

- Mentored students to analyze data and implement models using linear and non-linear regression
- Assisted with algorithm development, mathematical modeling and debugging for 70+ students
- Graded and provided feedback on assignments, exams and final project milestones

➤ Projects

Covid Vaccine Management System — *Dec. 2021 – Jan. 2022*

C Individual Project

- Stored community data in a singly linked list to perform add, update, search, delete and display operations
- Prioritized individuals using a sorting algorithm to receive a vaccine in a timely manner
- Allows entry to database with the correct login credentials and performs file handling according to user need

New York City Bike Traffic Data Analysis — *Nov. 2021 – Dec. 2021*

Python College Project

- Utilized pandas to organize bike data in tabular format for data manipulation and statistical calculations
- Performed linear, logistic regression and K-nearest neighbors to determine coherence in data
- Generated confidence intervals, confusion matrix, scatter plots, bar charts, histograms for data comprehension
- Created a detailed report to communicate model performance and the derived conclusions for bike traffic

Brain Tumor Detection Machine Learning Model — *May 2021 – June 2021*

Python Individual Project

- Gathered and pre-processed large datasets of brain tumors using categorical encoding
- Developed and trained a convolutional neural network in TensorFlow to predict brain tumors
- Visualized data to better analyze model efficiency using matplotlib and seaborn libraries
- Predicts meningioma, pituitary, glioma and no tumors with a 91 percent accuracy