ANMOL VIJAY BHATIA

✉ anmolvb11@gmail.com • Chicago, IL • 📞 312 826 2020

GitHub • 🔗 LinkedIn • 🌐 Website

SKILLS

PROGRAMMING LANGUAGES:	C++ | C | C# | Swift | Obj-C | Java | Python | F# | Rust | JavaScript | HTML | Dart | LATEX
FRAMEWORKS:	Rest API | Flutter | AWS Amplify | Node.js | NetBeans | Maven | Arduino | CSS | Django
LIBRARIES:	PyTorch | Tensorflow | Pandas | Scikit | NumPy | Tkinter | SpeechRecognition
DATABASE & TOOLS:	MySQL | SQLite | DynamoDB | AWS S3 | Git | Jira | WireShark | Burp Suite | Vim

EXPERIENCE

COMPUTER SCIENCE TEACHING ASSISTANT
August 2021 - Present

University of Illinois at Chicago - College of Engineering — Chicago, IL

- **Courses Taught:** Programming Practicum, Computer Design & Embedded Systems
- Provided C, C++ and Arduino programming guidance to 130 diverse students in data structures, computer architecture, OOP, unit testing, debugging, and software development.
- Organized and led labs and tutoring for 30+ students, improving logistics and enhancing learning.
- Developed a Java program to automate student seating allocation for lab sessions, enhancing efficiency by eliminating manual placement and optimizing session duration.

IT CONSULTANCY INTERN
January 2021 - March 2021

KPMG — Kuwait City

- **Areas of Involvement:** Software Development, Cyber-Security & Project Management
- Utilized Burp Suite, Wireshark, Python, and JS scripts to uncover sensitive information and 15+ exploits in web apps, resulting in improved code reviews and OWASP compliance.
- Conducted analysis of IT and network software based on Gartner's industry-standard charts, generating a detailed report that provided valuable insights to management.
- Designed project timelines and network schemes utilizing Microsoft Project and Visio, respectively, resulting in a successful development and integration of a new software application.

MATHEMATICS TEACHING ASSISTANT
August 2021 - December 2021

University of Illinois at Chicago - College of LAS — Chicago, IL

- Instructed 160+ students in precalculus topics, including complex numbers, vectors, and matrices. Assessed and graded assignments to monitor progress.

PROJECTS

15 Puzzle Solver (C++):
- Implemented IDA* search with two heuristic functions (misplaced tiles and Manhattan distance) to find a solution to any given 15-puzzle board configuration. Program returns the sequence of moves required to solve the puzzle, along with the number of nodes expanded, time taken, and memory used

Concurrent Dining Philosophers (Java):
- Employed synchronized blocks and wait-notify mechanism using threads and locks to ensure that each philosopher has exclusive access to a pair of chopsticks, preventing both deadlocks and starvation.

Movie Recommender App (Dart, Flutter, AWS Amplify):
- Secure login verification system using AWS Amplify that checks the validity of user email and password. Ability to check movies rating, reviews, and cast and production information from database

Stock Prediction with Linear Regression (Python):
- Built stock safety prediction model with Pandas, Scikit-Learn, Matplotlib and Kaggle dataset using financial and news sentiment data of top 5 Tech Companies.
- Processed and visualized data to evaluate model performance, guiding informed investment decisions.

EDUCATION

UNIVERSITY OF ILLINOIS AT CHICAGO
August 2019 - May 2023

Bachelors of Science in Computer Science, Minor in Mathematics — Chicago, IL

Awarded UIC Global Scholarship 2019 - 2023

Relevant Coursework: Data Structures, Algorithms, NUI Application Development, Computer Networking, Machine Learning, Artificial Intelligence, Concurrent Programming