Dev Patel

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EDUCATION

Rutgers University, *New Brunswick, NJ*   *Graduating in* May 2021

Degree:	Bachelor of Science in Computer Science
Relevant courses:	Algorithms, Data Structures, Python, Artificial Intelligence, C/C++, Computer Architecture, Networks, Computer Security, Compilers Assembly, Operating Systems, Logic Analysis, Software Methodology

WORK EXPERIENCE

Learning Assistant at Rutgers University, *New Brunswick, NJ*   Feb 2021 – present
- Facilitated 20+ workshops and discussions to help 40+ students with courses in Computer Science.
- Developed 5 tutorials on how to write computer programs and solve engineering problems.

Web Developer at Everlife Energy India Private limited, *India*   Apr 2020 – Dec 2020
- Designed testing methods to increase the efficiency of databases by 20%.
- Managed service-related activities with 15 vendor partners and created a fully functional website in collaboration with the web development team.
- Revamped 30+ web applications using HTML, CSS and designing tools improve functionalities by 50%

Student Unit Manager at Rutgers University, *New Brunswick, NJ*   Jan 2018 – Mar 2020
- Administered 100+ employees' schedules and daily events.
- Spearheaded 4 operations: cash transactions, register balance, inventory and orders placing to restock.

PROJECTS

Photos – Android Studio, Independent Project   Dec 2020 – Jan 2021
- Designed the application to import the photos from the gallery and enhanced the functionalities to handle photos using XML and Android Studio.
- Mastered Object-oriented programming and Data Structures to handle 20+ functionalities needed for the application.
- Stored the tags in way to improve the efficiently by 20% and utilized the resources to display results as needed.

Wumpus World, Artificial Intelligence   Sep 2020 – Oct 2020
- Enhanced AI in the Wumpus World game using the "Fog of War" idea and adding the probability distribution for state variables and best moves to succeed.
- Utilized the search function to define the shortest path and updated the code to increase the efficiency by 30%.

Flights, A Travel Reservation Website at Rutgers University   Oct 2019 – Dec 2019
- Created a website that allows users to view or make flight reservations for 1000+ flight schedules using HTML/CSS, Java, JavaScript, and MySQL.
- Developed efficient test strategies to verify website, collected and modified data to improve user experience by 20%.
- Hosted the website using AWS S3, MySQL workbench and AWS RDS for related functionalities. Stored data in MySQL database and modified it along with selected payment options.

Client-Server Interactor, Internet Technology at Rutgers University   Jan 2019 – Apr 2019
- Built a small-scale version of control system with 13 functionalities using sockets, multithreading, forking and file API. Functionalities included: configure, checkout, update, upgrade, commit, push, create, destroy, add, remove, current version, history, and rollback.
- Deployed a multi-user version to accelerate teamwork by 30% using socket ID and port numbers.

Artificial Malloc, Systems Programming at Rutgers University   Jan 2018 – Apr 2019
- Built an original version of the system's "malloc ()" and "free ()" functions that provide an advanced functionality to detect common programming and usage errors.

TECH SKILLS

Computer Science:	Distributed, Multi-tiered systems, Algorithms, Linear programming, Nonlinear optimization
Programming:	Java, C, C++, C#, Python (NumPy, Pandas, SciPy), HTML, CSS, JavaScript, XML, Git, MATLAB
Databases:	Relational databases, SQL server, MySQL, MongoDB, Google Cloud, AWS, Microsoft Azure
Systems:	Unix/Linux, UI Enhancement
Data Visualization:	Tableau, Power BI, WordPress, Microsoft Office (Word, Excel, Access, PowerPoint)
Statistical Inference:	A/B Testing, Hypothesis testing, Probability, Confidence intervals, Forecasting, Regression