

# Dev Patel

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## EDUCATION

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**Rutgers University, New Brunswick, NJ**

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

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**Learning Assistant at Rutgers University, New Brunswick, NJ**

Feb 2021 – May 2021

- 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

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**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

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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