

# Aman Shrestha

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## Education

- **University of Rochester** **Rochester, NY**  
*Class of 2021*  
BS in Computer Science, Cumulative GPA: 3.84/4.00
  - Relevant Coursework: Data Structures and Algorithms, Computer Networks, Computer Organization, Design of Efficient Algorithms, Mobile App Development, Artificial Intelligence, Data Mining, Databases

## Work Experience

- **FactSquared** **Washington, DC**  
*July 2020 - Present*  
Software Engineer Intern
  - Built multiple features on the Frontend for customer facing products using HTML, CSS, PHP and JavaScript
  - Integrated a paywall system using stripe for the products created by the company
  - Designed and built a website that displays the videos compiled by the company and allows search and filter operations
- **Careers Uncorked** **Rochester, NY**  
*July 2020 - Present*  
Front-End Developer Intern
  - Re-built and re-designed the official website using React to enhance user experience
  - Built a feature to automatically update the website based on upcoming events
- **University of Rochester** **Rochester, NY**  
*August 2018 - Present*  
Computer Science Teaching Assistant
  - Led study sessions, workshops and graded quizzes, projects and exams
  - Object Oriented Programming (JAVA), Data Structure and Algorithm (JAVA), Computation and Formal System (C), Artificial Intelligence (JAVA, Python), Intro to Databases (SQL)
- **Saarland University** **Saarbrücken, Germany**  
*May 2019 - August 2019*  
DAAD RISE Machine Learning Intern
  - Conducted research on how data collected from wearable devices could potentially impact privacy of an individual
  - Trained machine models using ECG and EDA data to predict what movie a person was watching from a given set
  - Experimented with LSTM, Random Forest Classifier, and models using Correlation Coefficient to get an accuracy of 60%

## Projects

- **Centralized Research Database**
  - Built a website that displays centralized information about research being done in different departments
  - Used MySQL for the database and PHP, HTML and CSS for website development
- **Job Clustering for Efficient Search**
  - In a team of two, used different clustering algorithms on job postings dataset from kaggle
  - Applied K-Means, Mini Batch KMeans, Birch, Agglomerative and Affinity Propagation Clustering algorithms
  - Used intersection of the clusters to suggest similar jobs to applicants
- **Task Sahayak**
  - Created a mobile app that lets user organize tasks based on priority and set reminders and notifications
  - Used JAVA, XML and Android studio to build this app
- **Enigma Simulation**
  - Built a mobile simulation of the encryption machine, Enigma, used during World War 2
  - Used JAVA, XML and Android studio to build this app

## Leadership Experience

- **President, Computer Science Undergraduate Council** *May 2020 - Present*
  - Led CSUG in its various efforts to promote collaboration among Computer Science students
  - Managed events and services like hackathon, tutoring services, info sessions and workshops
  - Initiated a challenge series focusing on different technologies for students in quarantine to learn and remain productive
- **Director, DandyHacks (Hackathon)** *March 2018 - October 2019*
  - Organized two of the biggest hackathons at the University of Rochester with approximately 300 participants each
  - Formed and led the hackathon organizing committee which included finance, communication, marketing, and logistics team

## Skills

- Languages: C, JAVA, Python, Visual Basic, Swift, MySQL, JavaScript, PHP, HTML/CSS, XML
- Tools/Frameworks: JQuery, Bootstrap, React, Android Studio, Visual Studio, Linux, Git/Github