Paaras Bhandari

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EDUCATION

University of Maryland - College Park — College Park, MD
Bachelor of Science in Computer Science; GPA: 3.94 — *Aug. 2018 – Present*

University of California Davis (Freshman Year) — Davis, CA
Bachelor of Science in Computer Science; GPA: 4.00 — *Sep. 2017 – June. 2018*

SKILLS AND RELEVANT COURSEWORK

- **Skills**: Java, C, C++, Ruby, OCaml, Python, Object Oriented Programming, Android Studio, Ruby on Rails, RESTful APIs, JSON, XML, HTTP Protocol, HTML, CSS, Bootstrap, Unix, Linux, Bash Shell Scripting, x86 Assembly, JUnit, GDB, Agile Methodology, MS Word, MS Excel
- **Coursework**: Object Oriented Programming in Java and C++, Organization of Programming Languages, Algorithms, C Programming, Discrete Structures, Machine Dependent Programming

EXPERIENCE

University of Maryland - College Park — College Park, MD
Teaching Assistant — *January 2019 - Present*

- **Office Hours**: Working as a Teaching Assistant for course CMSC132 - Object Oriented Programming II. Responsibilities include holding office hours for students.

Indian Institute of Technology - Kanpur — Kanpur, India
Software Engineering Intern — *June 2018 - Aug. 2018*

- **Android Studio**: Worked with Android Studio to develop an Android App for Brihaspati 3.0, which is an open source learning-based platform, and learned about it's basic features and functionality during my internship.
- **HTTP Protocol**: Learned about HTTP protocol and implemented client-server communication based on HTTP requests using Java libraries.
- **Apache Tomcat**: Worked with Apache Tomcat on server side. Tasks included debugging server side programs.

Space and Satellite Systems — Davis, CA
Chair of Website Committee — *Oct. 2017 - June 2018*

- **HTML and CSS**: Worked extensively with HTML and CSS, designed several web pages and learned about screen-size responsive layouts by implementing HTML pages for different screen sizes.
- **Git**: Worked with online repositories using Git version control.
- **Bootstrap**: Worked with Bootstrap framework for implementing dynamic buttons, scroll bars, and carousels.

CS Tutoring Club - UC Davis — Davis, CA
Tutor — *Jan. 2018 - April 2018*

- **C Programming and Discrete Mathematics**: Tutored students at University of California Davis furing winter 2018 for ECS 30 - C Programming and ECS 20 - Discrete Mathematics.

PROJECTS

- **Regular Expression Interpreter**: Developed a regular expression (regex/regexp) interpreter using OCaml. The program takes in a regular expression as input, converts it to a NFA (non-deterministic finite automata) and allows users to enter strings which are then tested using the NFA.
- **Bitcoin Rate App - Andoird / Ruby on Rails**: Developed an Android App that allows users to view real-time Bitcoin price in desired currency using an API.
- **Black Jack and Tetris**: Developed a Java implementation of the world-famous Black Jack card game and a variant of the famous arcade game Tetris. Supports GUI, allowing users to play the game easily.
- **Monopoly**: Developed a C++ implementation of the famous Monopoly board game in which players move around the board, buying, selling, and auctioning real estate.
- **Interest Calculator**: Developed a program using Java that allows users to calculate simple and compound interest used by banks. Supports GUI that allows users to enter data into text fields and displays the calculated interest.