

Ruchir Aggarwal

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EDUCATION

B.S. IN COMPUTER ENGINEERING

Purdue University
Expected May 2018 | W Lafayette, IN
Dean's List (All Semesters)
Cum. GPA: 3.78/4.0

B.S. IN COMPUTER ENGINEERING

National University Of Singapore
Aug 2017 - Dec 2017 | Singapore
Semester Study Abroad

LINKS

Github:// [aggarwalRuchir](#)
LinkedIn:// [aggarwr](#)

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Advanced C Programming
Software Engineering
Computer Design and Prototyping
Microprocessor Systems and Interfacing
ASIC Design

SKILLS

PROGRAMMING

Advance:

Python • C • HTML

Intermediate:

CSS • C++ • PHP • Assembly

• System Verilog

Intro:

Swift • C# • MySQL

SOFTWARE

MATLAB • PyCharm • IntelliJ IDEA
• XCode • Xamarin • Microsoft Office
• Mentor GRAPHICS Questa Sim
• Keil MDK 4 • Xilinx Vivado 2015.2

AWARDS

- 2017 Eli Shay Electrical Engineering Scholarship Recipient
- 2017 Summer Undergraduate Research Fellowship
- 2016 Walter V. Jones Memorial Scholarship Recipient
- 2015 Charles W. Brown ECE Scholarship Recipient

RESEARCH EXPERIENCE

SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP |

UNDERGRADUATE RESEARCH FELLOW

May 2017 – August 2017 | Purdue University, USA

- Created a Water Quality Index Calculator app which calculates and presents a visual analysis of Water Quality Index data
- Applied regression techniques to find the relation of water quality indices over time
- Reduced run time of the app by 6 times by using scientific packages like numpy and pandas

WORK EXPERIENCE

WATER RESOURCES AND ECOHYDROLOGIC ENGINEERING

GROUP | UNDERGRADUATE COMPUTER CONSULTANT

Jan 2018 – Present | Purdue University, USA

- Data management, analysis, and visualization using Python, MATLAB, and R
- File management and improving run time of computer models using Python
- Reporting and in line comments for replicating study

ELECTRONIC DEVICES AND DESIGN LABORATORY |

UNDERGRADUATE TEACHING ASSISTANT

Jan 2018 – Present | Purdue University, USA

- Providing assistance to students in laboratory exercises and experiments
- Supervising 24 students at a time to ensure their adherence to appropriate laboratory safety procedures and techniques
- Performing tasks such as attending meetings, grading, and entering data into the computer

INGEN INFOTECH PVT. LTD. | SOFTWARE INTERN

May 2016 – Aug 2016 | Gurgaon, India

- Collaborated with a small group of highly skilled and experienced engineers to create an app 'myLocalShope' to help local retailers start e-business
- Enhanced UI design for iOS version of app by making it simplistic and elegant
- Extended knowledge of developing multi-platform applications for smart phones

DESIGN PROJECTS

PEOPLE.CONNECT | LOGIC MANAGER

Aug 2017 – Present | National University of Singapore, Singapore

- Enhanced an address book GUI application to cater to businessmen
- Revamped the UI making easier for user to view the details of a person
- Developed functionality and performed automated testing for listing people by tags and adding password to the app using IntelliJ IDEA

VOLUNTEER EXPERIENCE

ENGINEERING PROJECTS IN COMMUNITY SERVICE | DESIGN LEAD

Jan 2016 – May 2016 | Purdue University, USA

- Chaired a team of 7 to deliver a sailboat to be used at Camp Riley (Indiana) for children with disabilities to enhance their learning experience
- Ensured effective communication with team members; briefed team on project statuses and results