

# VARUN KAPOOR

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## EDUCATION

**University of Southern California**

January 2024-December 2025

**Masters of Science**

Courses: Advances Mobile Devices and Games, Web Technologies, Game Engine Development, 3D Graphics and Rendering

**CHRIST University**

June 2015-April 2019

**Bachelor of Technology**

- 9.3/10

## ACADEMIC PROJECTS

**Team Member, Role: , Team Size: 2, Bengaluru, India**

July 2018-July 2018

- Developed the Infrastructure management project aimed at designing a portal for management of all aspects of infrastructure of a university building, including parts, water supply, repairs, and allow regular checking of such aspects

**Team Member, Role: , Team Size: 10, Bengaluru, India**

August 2017-April 2018

- Member of ESAIL Project: Performed brainstorming sessions for a method to purify water around rivers in Bangalore
- Collected data from farmers and converting data into relevant knowledge. The water deployed by farmers for crops was highly impure due to rapid industrialization of the area around Bangalore decreasing the quality of the crops

**Team Lead, Role: , Team Size: 2, Bengaluru, India**

March 2017-March 2017

- Owned the Baby Optimizer project. Succeeded in figuring out the optimal room temperature conditions required for achieving maximum comfort for a baby while sleeping/resting
- Devised the IoT project with the help of an Arduino board and creation of a relevant codebase for the project

**Team Lead, Role: , Team Size: 3, Bengaluru, India**

August 2015-September 2015

- Led the project "Smart control of electrical appliances using Android". Created an Android application to control electrical appliances using an Arduino and a wifi module

## INTERNSHIPS

**Business Development Intern**

April 2018-June 2018

TrillBit, Bengaluru, India

- Developed an Augmented Reality (AR) application leveraging ARCore for Unity for customers to visualise discounts and coupons for 20 stores based on proprietary trillbit technology
- Integrated the AR application into TrillBit's existing application
- Structure information through code submission and presentation and promptly passed to the required team

**Trainee**

April 2017-May 2017

Wipro, Bengaluru, India

- Created a dashboard structure with AngularJS Charts to be leveraged by teams based on input parameters of requirements

## WORK EXPERIENCE

**Course Producer, Viterbi School of Engineering**

May 2024-July 2024

CSCI 526 Advanced Mobile Devices and Games, Los Angeles, California

- Explained technical lectures regarding game development using Unity and C#
- Reviewed grading done by graders for 9 assignments throughout the course
- Set up syllabus, assignments and grading rubrics for the class

**Total Cost of Ownership (TCO) Simulator/ReactJS Developer:**

November 2021-August 2022

Daimler Truck Innovation Center India (DTICI), Bengaluru, India

- Conceptualized the development of the application from architectural design phase to implementation phase for partners of Daimler Trucks in Japan (FUSO)
- Implemented and learned ReactJS in minimal time to provide deliverables for clients on time
- Sustained daily and weekly communication and discussions, along with sprint planning with clients regarding the application

**Daimler4You/Android Developer:**

August 2019-October 2021

Mercedes-Benz Research and Development India (MBRDI), Bengaluru, India

- Devised and upgraded application for partners in Germany (Daimler) while working in a sprint environment
- Migrated entire application's codebase from Java to Kotlin and integrated 6 new features as the sole android developer
- Upheld constant communication with Daimler partners in Germany regarding the status of the application and better, efficient ways of bug solving

**MyWork/Android Developer:**

August 2019-October 2021

Mercedes-Benz Research and Development India (MBRDI), Bengaluru, India

- Developed and implemented new features for partners in Europe
- Collaborated in an intercultural team with developers from Germany and India
- Adapted to sprints and discussed future sprint plans with partners and fellow developers
- Demonstrated quick thinking and problem-solving to partners, led to obtaining the application for the India team

**TruckConnect/Android Developer:**

August 2019-October 2021

Mercedes-Benz Research and Development India (MBRDI), Bengaluru, India

- Devised an application for Truck fleet owners to simplify the process by saving upto 20% time to track fleet of trucks
- Constructed 5 new features and innovated new methods to implement deliverables on time
- Started the project and picked up details in 3 days with independent research

**COURSES**

- Introduction To Game Design, California Institute Of Arts, July 2021
- Introduction To Augmented Reality And Arcore, Google Daydream, July 2018
- Introduction To Cybersecurity, Cisco Networking Academy, December 2017
- Game Development For Modern Platforms, Michigan State University, December 2016
- Business Of Games And Entrepreneurship, Michigan State University, June 2016
- Principles Of Game Design, Michigan State University, May 2016
- Introduction To Game Development, Michigan State University, April 2016

**HONORS**

- Paper entitled "Augmented Reality Enabled Education for Middle Schools" accepted in the International Conference on Adaptive Computational Intelligence (ICACI) 2019, Springer, 2019
- "Augmented Reality Enabled Education for Middle Schools" presented at the International Conference on Adaptive Computational Intelligence (ICACI) 2019 and published in SN Computer Science (Springer), May, 2020
- Certification in Peer Education, Center for Counseling and Health Services, CHRIST(Deemed to be University), 2016

**ADDITIONAL INFORMATION**

- Scrum Workshop, CHRIST(Deemed to be University), January 2018
- Competed in Ideathon 2017, Indian Institute of Technology Delhi, National Knowledge Network, 2017
- Participated in VIT Model United Nations UNGA-DISEC, 2017. Won 1 place in Quiz, DARPAN 2017, CHRIST(Deemed to be University), 2017. Won Best Delegate in Inter-departmental Model United Nations CHRIST, EU, Ireland, 2016. Won Honorary Mention in SRM Ramapuram Model United Nations, UNGA-DISEC, Croatia, 2016. Volunteered in the Virtual BAJA SAEINDIA 2016. Participated in Quiz, Blossoms, 2018
- Won 1st place in Engineer's Day Project Exhibition 2015 for "Smart control of Electrical Appliances using Android", 2015

**LEADERSHIP ROLES****Organizing Committee Member, Christ University, Bengaluru, India**

January 2018-December 2018

- Organized Startup Pitch workshop, Foobar 2.0, Association of Students of Computer Science and Information Technology with Innovation(ASCI), CHRIST(Deemed to be University), 2017
- Conducted Gaming Workshop(Game development), Foobar 2.0, Association of Students of Computer Science and Information Technology with Innovation(ASCI), CHRIST(Deemed to be University), 2017
- Organizing Committee Member of National Conference on Challenges and Opportunities in Computer Engineering(NCCOCE'18), CHRIST(Deemed to be University)
- Competed in the National Conference on Challenges and Opportunities in Computer Engineering, February 2017
- Led the Model United Nations Club as the Secretary-General for the organization of CUFEMUN 2018, Faculty of Engineering, CHRIST(Deemed to be University)