Avichal**Rakesh**

avirakesh
avichal-rakesh

EDUCATION

University of Wisconsin – Madison
Class of 2019
Major: **Computer Science**
GPA: **3.936** / 4.0

PROJECTS

BedSide Pi
An open source project that turns a Raspberry Pi into a smart bedside clock. Using its companion app (available on Play Store), BedSide Pi can mirror notifications from Android devices.

DPS RKP Live
Official School Application for Delhi Public School, R.K. Puram

Money Manager BETA
A fund managing app, with expenses reporting

Black Accent Theme – CM 12/12.1
A minimal theme for CyanogenMod 12/12.1

LANGUAGES

Kotlin, Java, C#
C, C++
Javascript (TypeScript, NodeJS)
ReactJS
Python
MySQL, MSSQL

SOFTWARE

Android Studio
Adobe Photoshop
Visual Studio
Eclipse
MATLAB
Turbo C++ IDE

PROFESSIONAL EXPERIENCE

Intuit Inc., Mountain View, CA 30 May 2018 - 10 August 2018
Software Engineering Intern
- Worked with Conversation Framework Team to create a Web Client and an Android SDK
- Conversation Framework is a messaging platform for supporting chatbots at Intuit
- Used Kotlin, RxJava, and Retrofit to create Android SDK
- Worked on Web Client of Conversation Framework to add Voice Recognition
- Learnt and used ReactJS to work with Web Client

Dassault Systèmes SolidWorks Corp, Madison, WI 15 May 2017 -11 August 2017
Tools R&D Intern
- Used Microsoft's Team Foundation Service (TFS) to overhaul in house CI/CD systems
- Created a TFS extension to manage different streams of SolidWorks, using TypeScript, HTML, CSS
- Added auto-deployable monitoring system to buildfarms using Grafana, InfluxDB, Python, and PowerShell
- Learnt to work with Git and TFVC and how to interface between the two

Morgridge Institute for Research, UW - Madison 14 November 2016 - 12 May 2017
Web App Developer
- Developed web application to present data from various test in a visual form.
- Used PHP to create a REST API and linked it to an interface created with JavaScript, HTML, and CSS

PodcastRe – A Podcast Archive, UW – Madison 06 June 2016 - 26 August 2016
Front End Developer
- Created tools to manage an archive of Podcasts, including hierarchy of user accesses
- Developed a streamlined user experience with a team of four and version control (Git) to coordinate different aspects of the project
- Learnt web front end tools and languages, and became familiar with MySQL Database

Voxomos Systems Private Ltd., New Delhi, India 17 September 2013 - 28 February 2014
Android Developer | Intern
- Worked with custom, in-house voice recognition API to develop a prototype of Voice Controlled Television Remote
- Used Java and XML to create the Android Application

RESEARCH EXPERIENCE

FPGA Implementation of Minimum Mean Brightness Error Bi-Histogram Equalization (MMBEHE)
Under Review | TÜBİTAK
- Working with Prof. Tripathi (NIT Delhi) to implement MMBEHE on a Xilinx FPGA.
- Learnt various low level concepts of computing to implement high level logic to a low level device
- Learnt System Verilog for logic synthesis

LEADERSHIP EXPERIENCE

Trimmed (Startup)
Android Developer | Founding Member
- Worked with a group of students to bring location enabled citizen journalism to the masses

House Fellow (Resident Assistant), UW – Madison 16 August 2017 - Present
- Developing a positive living environment designed to link community, faculty, and residents, often resolving conflict
- Leading student-centered hall programs to promote social, education, diversity, health, emotional, understanding and growth

IEEE, UW – Madison Student Chapter August 2016 - Present
Projects Chair
- Hosting project and mini-project making seminars during spring semester each year