Ayush Ray

aray29@asu.edu | (480)-501-3639 | Tempe AZ | Visa: F-1
https://www.linkedin.com/in/ayush-ray | https://github.com/ayush-ray

SUMMARY

Actively seeking an internship in summer 2019 in software development role, where I can use my academic knowledge and industry experience to the maximum extent

EDUCATION

Masters in Computer Science at Arizona State University, Tempe, AZ (GPA: 3.56/4) **Aug 2018 – May 2020**

- Fall 2018 Courses: Data Structures and Algorithms, Data Mining, Mobile Computing
- Spring 2019 Courses: Foundation of Algorithms, Data Visualization, Distributed DB Systems

Bachelor of Technology in Computer Science at IIIT Bhubaneswar, India (GPA: 7.4/10) **Aug 2013 – Jun 2017**

- Relevant Courses: Analysis of Algorithms, Operating System, Computer Networks, Software Engineering

TECHNICAL SKILLS

Programming:	Java, Python, C++, C
Web Development:	JavaScript, HTML5, CSS3, SVG, D3
Big Data & Databases:	R, Hadoop (Familiar), Oracle10G, MySQL, PostgreSQL
Libraries:	NumPy, Pandas, Sci-kit, Matplotlib, Apache Spark,
Tools:	Git, MATLAB, Eclipse, Android Studio, Excel, Tableau

EXPERIENCE

Graduate Student Assistant at Arizona State University, Tempe AZ **Sep 2018 – Present**

- **Technology: Java**
- Responsible for grading courses: Principles of Programming, Object-Oriented Programming
- Created Auto Grading program that runs the student's code and checks multiple test cases

Associate IT Consultant at ITC Infotech, Bangalore, India **Oct 2017 – May 2018**

- **Technology: C#, SQL**
- Trained on ASP .Net using C# and SQL for a duration of 3 months
- Developed and implemented modules for ENGCALC, a mathematical tool used by the client KONE Elevators

Intern, CASTS Pvt. Ltd., Bhubaneswar, India **May 2016 - Aug 2016**

- **Technology: Android**
- Created an Android Application in a team of 3 members for a public bus transportation company
- Supervised by the Head of Operations and learnt the process followed by the industry, starting with design and implementation leading to delivery and maintenance of a project

PROJECTS

Heart Rate detection and Bradycardia Prediction at Arizona State University **Aug 2018 – Dec 2018**

Technology Stack: Java, MATLAB

- Used ECG sensor for collecting data and cleaned the data using FIR filter
- Implemented R-peak detection algorithm and derived and plotted heart rate from peaks detected
- Used K-means clustering algorithm for Bradycardia prediction using **MATLAB**
- Developed an **Android** application for display of prediction results as per the user by implementing **Java**

Activity Classification using Machine Learning algorithms at Arizona State University **Aug 2018 – Dec 2018**

Technology Stack: Java, Android SDK, MATLAB

- Performed Principal Component Analysis on the dataset to reduce the dimensionality of data
- Implemented decision tree machine learning algorithm for classification of different actions involved in American Sign Language dataset by learning the training data and validating using test data
- Achieved an accuracy above 90% for the implemented classification.

Comparison of Grid-bases Dynamic Routing Protocols at IIIT Bhubaneswar **Jan 2017 – Apr 2017**

Technology Stack: Castalia, OmNet++

- Analyzed various grid-based routing protocols
- Developed an energy-efficient dynamic grid-based route allocation protocol for automated data collection and transmission from source to sink