ASHOK PATEL

3220 E, John Hinkle Place, Apt A, Bloomington, IN 47408

asmpatel@iu.edu | +1 (812) 361-7301
ashok133.github.io | linkedin.com/in/ashok-patel

EDUCATION

Kelley School of Business, Indiana University, Bloomington, IN   June 2018 - Present
Master of Science in Information Systems | Business Intelligence and Analytics
Relevant Coursework: Statistics, Operations, Financial Accounting, Strategic Decision Making, Spreadsheet Modeling, System Modeling & Design, Data Modeling & Database Design, IT in Business, Data & Systems, IT Architecture & Cloud

K. J. Somaiya College of Engineering, Mumbai, India   August 2014 - March 2018
Bachelor of Technology, Major: Computer Engineering   GPA: **3.95**/4.00
- Senior Mentor, Think Tank – Campus Tinkerers' Club: Supervised 2 live projects from ideation to implementation:
    1. In-house research on demographic analysis of service usage trends for mobile applications
    2. Inventory and admission management system for a local hospital and medical research center
- Google Student Ambassador, KJSCE Chapter: Collaborated with GDG Mumbai to compile usage guides and conduct training sessions on G Suite apps (Google Docs, Sheets, Slides, Keep, Calendar) for 120+ students and faculty members in a team of 3

WORK EXPERIENCE

Indian Space Research Organization, Mumbai, India   March 2018 – August 2018
Lead Intern – Project Deployment
- Led a team of 5 in 2D & 3D simulation development of a hybrid algorithm (OpenCV, Unity3D) with dynamic path calculation, reducing mapping failure rates by over 90% through immediate reallocation of jobs post unexpected node failures in swarm
- Developed a Node.js control dashboard for Application Scientists to remotely log real-time network status, images and heartbeats
- Designed the mission flow, automated control testing, and programmed an asynchronous 2-way TCP channel for packet exchange

Department of Science and Technology, Government of India, Mumbai | Bhubaneswar, India   April 2017 – March 2018
Research Data Analyst Intern
- Scraped, cleaned and analyzed historical data of 21 water quality parameters from 12 OGD repositories for 20+ states
- Modeled and implemented a relational database in SQL for 64000 sources with a custom Amazon RDS + S3 instance, provisioning automated backup, point-in-time recovery and cross-region replicas, reducing mean query response time from 4 to 0.053 seconds
- Designed and developed a web-based quality monitoring dashboard for the ministry officials to track hardware kits and govern quality control initiatives, reducing reporting time for preliminary test results by over 30 days

Surge, One Bit Technology, Mumbai, India   October 2016 – March 2017
Business Analytics and Operations Associate
- Responsible for analyzing historical registration data from 52 institutions to filter and report potential affiliations in a team of 6
- Automated registration and data retrieval flow reducing turnaround time by 2 days leading to an increase in acquisition rate by 60%
- Expedited development and testing of revamped company website towards on-time 'go-live', increasing online engagement by 30%

SELECTED PROJECTS

Application Suite for Personal Assistant Semi-Autonomous Swarm Drones   Feb 2017 – March 2018
- Modeled and programmed a custom corpus-based command processing engine in Python with an interpretation accuracy of 97%
- Developed a native companion app (NLP and MultiWii control support) for interfacing with swarm intelligent drones (PlutoX)

Facial Feature Recognition using Cloud Dataproc   April 2018 – May 2018
- Created a 2-node managed Cloud Dataproc cluster with Apache Spark to distribute a facial feature mapping job using haar cascades

Demographic Analysis of Service Usage Trends   June 2017 – Sept 2017
- Developed a native Android application to retrieve and upload comprehensive data about third party apps and service usage
- Parsed and analyzed collected data from Firebase RDB for mining personality trends based on usage statistics and demographics

TECHNICAL SKILLS

- **Programming/Scripting:** *(Proficient)* Python • Java • HTML5 • CSS3 • JS • XML | *(Working Knowledge)* MATLAB • PHP
- **Software Tools:** Git • VS Code • Android Studio • Sublime • MySQLWorkbench • Postman • Slack
- **Data Analytics:** R • Excel • Tableau • RapidMiner • Orange • Jupyter • TensorFlow • Firebase • AWS • GCP • Google Analytics
- **Databases:** MySQL • MongoDB • PostgreSQL • SQL Server

EXTRACURRICULAR

- Second Prize (Leader, Team MU-FALCON) among 254 participant teams at national level, Smart India Hackathon 2018
- First Prize (Team DIWAM) among 301 participbant teams at national level, Smart India Hackathon 2017
- Led 300+ volunteers as the Station Leader (Hamara Station Hamari Shaan) for 7 days during a city-wide beautification drive
- Awarded $1300 Scholarship (INSPIRE) by State Government for performing in top 1% across the State Board in high school