UPINDERJIT SINGH

480.332.8327 • usingh17@asu.edu • linkedin.com/in/upinderjit-singh/ • github.com/upinder3

SUMMARY

Student of Master of Computer Science (GPA 4.0/4.0) with **three years of experience** as a **Software Developer**. Currently seeking full time Software Developer roles from May 2021.

EDUCATION

Master of Computer Science   ***Graduating May 2021***
Arizona State University (ASU), Tempe, AZ   **GPA: 4.00/4.00**
Relevant Courses: Artificial Intelligence, Statistical Machine Learning, Data Mining, Distributed Database Systems, Data Intensive Systems for Machine Learning

Bachelor of Technology in Electronics and Communications Engineering   ***Graduated June 2016***
Chandigarh Engineering College, India   **GPA: 3.67/4.00**

TECHNICAL SKILLS

Programming: Python, Java, Perl, Bash, SQL, PL/SQL, Scala, C/C++
Databases: Oracle, Sybase, PostgreSQL, MySQL, MongoDB
Operating Systems: Linux (command-line and vim expertise), Windows
Other: Gradle, Spark, Hadoop, MapReduce, Hive, JIRA, Autosys, SVN, Git

PROFESSIONAL EXPERIENCE (3.5+ years)

Botco.ai, Scottsdale-Arizona: Data Analytics and NLP Intern (3 months)   **June 2020 – August 2020**
- Researched data models to utilize in the product analytics platform. Support back end development team with coding in **Java, MySQL and MongoDB**. Used commercial software development check-in and procedures and follow sprint schedules.
- Computed Concept/terms in a Natural Language Processing corpus for unmatched user utterances and new documents using NLTK and JATE and were projected in a word cloud format.

Gemini Solutions (client PIMCO), Gurgaon-India: Software Engineer (3 years)   **June 2016 – June 2019**
- Developed a generic PIMCO Analytics Risk Calculator framework using **Python, Java, Perl, Sybase and Oracle** which classify securities based on finance sector, followed by modeling the risk measures catering to 300+ different finance models.
- Optimized analytics processes using **Python, Perl and Oracle** (PL/SQL) which **reduced run-time by 80%.**
- **Designed automation tools** using Python, Java and Bash scripting for reporting activities like deployment verification.
- Migrated processes from **Solaris to Linux** and **Sybase to Oracle** as a part of technology upgradation.
- **Lead a team** of 4 resources, directly dealt with a client team of 13 members with accountability of requirement gathering, regular updates over audio/video call and timely delivery.

Wipro Technologies, Pune-India: Technical Trainee (4 months)   **Jan 2016 –April 2016**
- Developed a generic company system to store employee data using Java and MySQL database.
- Created a recruitment application using click and go features of **salesforce.com**

ACADEMIC PROJECTS

PACMAN Project:
- Built an autonomous agent which makes rational decision in fully or partially observable and adversarial settings for PACMAN game. Using Deep Learning, Planning, Heuristic search, Q-learning, Reinforcement Learning. [**Link**]

Data Classification Projects:
- **Classified** images and text using feature selection and different methods like Gradient Descent, Stochastic GD, Mini-batch SGD and SoftMax regression to minimize loss function with the help of **TensorFlow**. [**Link**]
- Classified MNIST data by implementing Logistic Regression and Deep Neural Network using **TensorFlow**. [**Link**]

Distributed Database Systems Project
- Built a Geospatial Data Processing Project using Hadoop, Spark, Postgresql, Python, Scala, MongoDB. [**Link**]

Meal Detection in Type-1 Diabetic Patients Project
- Developed a system to better detect meal of a Type-1 diabetic patients using CGM pump and insulin detector reading (which are parts of artificial pancreas). Involving feature selection, PCA and Graph Plot using Matplotlib. [**Link**]

EXTRA CURRICULUM

Solution X Hackathon [2019]: Created an application "**SmartPay**" which is smart selection of owned credit card [**Code Link**]
Code and Response Codeathon Presented by IBM [2019]: Created a disaster management system to show areas affected on a website to provide resources for disaster recovery. Involved in website scraping for getting disaster information.