Dipen Chovatiya

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EDUCATION

State University of New York, Buffalo, NY August 2016 – May 2019
Bachelor of Arts, Computational Mathematics

Relevant Coursework: Data Oriented Computing, Design and Analysis of Algorithms, Database Management Systems, Computer Architecture, Multivariable Calculus, Object Oriented Programming.

SKILL SET

Programming Languages: Python, JAVA, C++, Tensorflow, HTML, CSS, JavaScript, MySQL, Assembly Language Programming.
Tools: Android Studio, Eclipse, MS Office, NetBeans, Anaconda Navigator, Xcode, Visual Studio, Photoshop.

WORK EXPERIENCE

Software Engineering Consultant, *Krish Creation* October 2017 – January 2018

- While in college, consulted with a small textile factory to improve company's invoice process.
- Moved the company from hand written invoicing and inventory to an automated order tracking system.
- Designed ETL system with a robust data pipeline, data quality ensured through readable code and diligent deduplication.
- UI created through conversation with the users, using AWT.
- Project decreased the total amount of bookkeeping by 50% and freed a full-time employee from performing the work manually.

Junior Information Technology Consultant, *University at Buffalo* August 2018 – May 2019

- Fixed projectors, provided access to campus systems, debugged web applications, and generally kept university IT running.
- Worked with an independent team on a campaign to help students migrate to a new consolidated IT system, including a presentation of new resources to the campus.
- Consulted with the management team to help design a new point-based system to track the performance of the employees.

PROJECTS

Track the Shuttle *(Android Studio, Java, Firebase)* November 2018 - December 2018

- Designed an Android application to track shuttle routes in real time, and provide notifications for students.
- Application uses robust Firebase fallback if university API is offline, and displays the route using Google Maps.
- Gained widespread adoption among my social circle, saving ample of time for 80 users.

Gooseberry Leaves Image Classification *(Python, Tensorflow, Machine Learning)* October 2018 – November 2018

- Classified leaves based on 5000 images provided through an online form with a Convolutional Neural Network, achieving accuracy of 96%.
- Neural Network uses Rectified Linear Unit and Max-pooling to determine the true classification of the image.
- Attained the accuracy of 98% in MNIST handwriting database.

Complaint Analysis *(Python, Pandas)* September 2018 – October 2018

- Analyzed highway safety complaints and found evidence of deficient parts in the Chevrolet Cobalt 2005 model.
- Time series analysis of 3881 complaints found evidence that ignitions caused steering issues 5 years after use.
- In 2014 after several accidents General Motors recalled 40859 cars. I was able to find evidence of the problem starting in 2010.

Flight Ticket Booking System *(C++, OOP)* January 2016 – March 2016

- Developed a Flight Ticket Booking System using core concepts of Object-Oriented Programming and C++.
- Designed Use Cases and Activity Diagrams in UML to improve the development process.
- Application uses Graphics in C++ to display the current location of various flights.