Zal Joshi

zjoshi@umich.edu
zjoshi.github.io

EDUCATION

B.S. IN COMPUTER SCIENCE, MINOR IN POLITICAL SCIENCE | *University of Michigan, Ann Arbor*
SEPT 2015 – DEC 2019

- LSA Honors Program
- Coursework: Web Systems • Mobile App Dev • Computer Security • UI Development • Computer Organization • Theory of Computation • Data Structures and Algorithms

SKILLS

- Programming: C • C++ • Python • HTML • CSS • JavaScript • ASP.NET • SQL • Vue.js
- Design: UI/UX • Photoshop • Illustrator • InDesign • XD • InVision • Microsoft Office
- Marketing: content marketing • social media • website design
- Languages: English • Hindi • Gujarati

WORK EXPERIENCE

WEB DEVELOPMENT INTERN | *Kaiser Permanente, Pleasanton, CA*
JUNE 2019 – present

- Took complete control over a web app (PI Admin Portal) that allowed for admins to edit KP server, environment, and user data, trained new employees on complete structure/function of the web app
- Implemented the full-stack using ASP.NET framework, utilized C#, T-SQL, VS, Microsoft SQL Server, and front-end technologies
- Individually designed a new UI using InVision

INTERN | *Irish House of Parliament, Dublin, Ireland*
JUNE 2017 – AUG 2017

- Developed and conducted research on Brexit, composed reports on EU affairs
- Represented the office in political conferences with foreign government officials

RESEARCH ASSISTANT | *Center for Group Based Dynamics, Ann Arbor, MI*
MAY 2016 - MAY 2017

- Collected data using EEG machines and analyzed data through SPSS in social psychology
- Semester presentations on related literature in EEG software, social psychology, and neuroscience
- Trained new undergraduate researchers in lab work including EEG procedures and data analysis

PROJECT EXPERIENCE

TWITTER ML POSTER | *Big Data in Precision Health Conference, Stanford University*
MAY 2019

- Designed a simple UI, scraping twitter using Twython and Flask for data relating to healthcare topics
- Created a poster presented at BDiPH summarizing project design, objectives, and results

TSP ALGORITHMS & HEURISTICS | *Univ. of Michigan College of Engineering*
NOV 2018 – DEC 2018

- Implemented TSP heuristics such as the arbitrary insertion and nearest insertion to approximate an instance of the Traveling Salesperson problem
- Obtained an optimal solution of the TSP problem through Backtracking, Branch and Bound, Prim's and Kruskal's algorithm for an MST, and other graph theory algorithms

NAÏVE BAYES CLASSIFIER | *Univ. of Michigan College of Engineering*
MAR 2018 – APR 2018

- Part of a team that created a program to classify Piazza posts using machine learning to enhance Piazza user experience
- Implemented a Naïve Bayes Classifier in C++ to predict a post's label given calculated probabilities