

PARTH DHYANI

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EDUCATION | UNIVERSITY OF MICHIGAN ANN ARBOR, MI

Bachelor of Science in Engineering in Computer Science, GPA: 3.55 / 4

Dec 2021

Coursework: Data Structures and Algorithms, Web Systems, Computer Architecture, Cybersecurity, Usability and Needs Assessment, Software Engineering, Information Retrieval

Awards: Engineering Scholarship of Honor (2018-22), C.M. Donovan Engineering Scholarship (2020), Lipsey Multimedia Reporting Award (2020)

WORK EXPERIENCE | HUMANA LOUISVILLE, KY (REMOTE)

Software Engineering Intern

May 2020 – Aug 2020

- Developed a full-stack web app for employees to efficiently track, request, and receive Google BigQuery datasets with a Vue.js frontend, Flask REST API backend, and a NoSQL Firestore database
- Deployed project to Google Cloud App Engine through Azure DevOps CI/CD pipelines with unit testing
- Implemented a secure OAuth sign-in system, automated reports, and auto-generated Azure work items
- Collaborated with a team of other interns and managers in an Agile framework and virtual environment

THE MICHIGAN DAILY NEWSPAPER ANN ARBOR, MI

Managing Online Editor (Lead Engineer)

Aug 2020 – Present

- Led the paper's software development team, including the data, mobile, UI/UX, and website subteams
- Built a continuously updating election website and API using React.js, Python, AWS S3 and Lambda, that contained links to The Daily's latest articles, trivia quizzes, and live D3.js results/poll line maps
- Coordinated developers from UM and OSU to create a Rivalry Game fundraising site, which raised \$20k
- Currently migrating our content to AWS to especially make use of S3, CloudFront, and Lambda

Project Manager of Data and Interactives

Dec 2019 – Aug 2020

- Trained and led 8 data scientists and web developers to triple the paper's interactive online content
- Created auto updating COVID graphs for Michigan using D3.js and a Python web scraping script
- Pushed for increased investment in digital and cloud initiatives, while sitting on the paper's board

Data Scientist

Sep 2018 – Dec 2019

- Gathered data for news articles through FOIA requests, surveys, and querying online databases
- Investigated, cleaned, aggregated and compiled data sets through R, Tableau, and advanced Excel
- Created interactive charts, visuals and maps with D3.js and integrated them with The Daily's website

MULTIDISCIPLINARY DESIGN PROGRAM ANN ARBOR, MI

Remote Sensing Team Software Developer

Jan 2019 – Dec 2019

- Developed a Python Tkinter GUI that interfaces with the team's C++ library for satellite data analysis
- Wrote C++ software to create tree objects and random forests and rendered them in 3D using OpenGL

ACTIVITIES | BLUELAB INDIA PROJECT ANN ARBOR, MI

President

Apr 2019 – Present

- Helped scale our \$5 low-smoke cookstove to 1030 families in 10 rural Indian communities
- Led two travel teams to India in 2019 and 2020 for technical and social validation of the cookstove and to build stronger relationships with our community partners
- Managed and motivated 30 team members, led meetings, and communicated with stakeholders

THE MORTON ARBORETUM LISLE, IL

Center for Tree Science Forest Ecology Researcher

Sep 2016 – May 2018

- Researched the phenology (life cycle trends) of invasive and native plants in the field
- Analyzed data through experimental statistics and utilized large data sets in R
- Studied remote sensing data to compare the phenology of the greater forest to the undergrowth

SKILLS | Languages: C/C++, Python, HTML, CSS, Sass, JavaScript, R, SQLite, basic Go, basic Java

Technologies: D3.js, Vue.js, React.js, Flask, GCP App Engine/Firestore, Azure DevOps, AWS S3/Lambda