Devak Nanda

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EDUCATION

University of Illinois at Urbana-Champaign, Illinois (UIUC) **Aug 2021 – Dec 2023**
GPA: 3.56
Bachelors of Science in Computer Science at the Grainger College of Engineering
Vice President of HeForSWE, Affinity Group of *Society of Women Engineers @ UIUC*
Growth Committee Director at *Women in Computer Science @ UIUC*
Relevant Coursework

- **Fa 2021 / Sp 2022:** Open Seminar in Comp Sci in Rust**,** Computer Architecture, Data Structures, Software Design Lab, Linear Algebra w/ Computational Apps
- **Fa 2022 / Sp 2023:** System Programming, Database Systems, Parallel Programming (Sci & Engr), Probability & Statistics for Computer Applications, Machine Learning, Algorithms, Artificial Intelligence

WORK EXPERIENCE

BNSF **Jun 2022 – Aug 2022**
Technology Services Summer Intern

- Contributed solutions on a weekly basis as a developer for the Service Interruption LifeCycle application
- Created an endpoint in Spring (Java 8) to communicate application status to OpenShift host
- Wrote an API in Spring utilizing JDBC and IBM DB2 to query Service Interruptions based on user parameters
  - Reduced network load by 90% compared to old API
- Fixed defects in the UI written in React with Recoil (Typesrcipt), performed unit tests in Spock (Groovy), managed Queues and Topics in ActiveMQ (Java 8)

GrassrootsGov **May 2021 – Aug 2021**
Growth Manager

- Startup platform that aims to create a new digital activism platform for political change
- Facilitated communication between the Growth and Development teams
- Wrote multiple weekly reports (Notion), templated website pages (Figma) and performed code reviews (Github)

PROJECTS

Map Reduce in Rust – CS 128 Honors Final Project Github **Dec 2021**
Developer

- Implemented Map Reduce using Rust for any file format to summarize data frequencies within the file
- Built webapp with Rocket, displayed map entries in a graph using Charts, SVG

Healthy and Wealthy Devpost | Github **Sept 2021**
Developer, Hackathon Winner

- PYGHACK 2021 Grand Prize Winner
- Designed API in Python that queried UIUC Dining Hall Information to design healthy meals for students
- Built website with Flask, HTML and JavaScript, deployed on Heroku

Temporal Distance Map Poster | Paper | Github **Jun 2020 – Aug 2020**
Undergraduate Researcher

- Presented at GeoProcessing 2020, Conference on Advanced Geographic Information Systems (GIS)
- Created tool to generate map projections where distance is represented by travel time rather than physical distance
- Queried Google Maps, Bing Maps, and OpenStreetMaps APIs and their respective GIS modules for geographic data
- Utilized NumPy, SciPy, Pillow, Skimage, and ImageIO to create map projection and animation

PUBLICATIONS

"Wearable Spasticity Estimation and Validation using Machine Learning" as Co-Author and Researcher
Presented at the 2020 IEEE International Conference on Bioinformatics and Biomedicine

Chapter A5. Progress in Computer Vision: Object Recognition as Co-Author
Chapter in **"**Bridging Human and Artificial Intelligence", a part of the AECT/Springer series **"**Educational Communications and Technology: Issues and innovations**".**

SKILLS

Languages: C/C++, Java, Rust, Python, Swift
Computer Skills: Machine Learning (TensorFlow and PyTorch), Database experience (pandas, DB2, PostgreSQL), Bash/Zsh scripting, Unix/Linux, Computer Vision (OpenCV), Git, Microsoft Office Suite, LaTeX, Markdown