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DIBYADARSHI DASH

EDUCATION

UNIVERSITY OF MICHIGAN, ANN ARBOR - College of Engineering   (Sep 2017 - May 2021)
- **Major** - Computer Science And Engineering
- **GPA** - 3.6
- **Courses** - Deep Learning for Computer Vision, Machine Learning, Programming Languages, Operating Systems, Web Systems, Human Centered Software Design, Discrete Math, Linear Algebra, Statistics

EXPERIENCE

GITLAB - Software Engineering Intern   (May 2020 - Aug 2020)
- Worked for the Backend-Editor and Backend-Knowledge teams of GitLab.
- Fixed bugs in the static site editor, snippets and wikis, and made improvements to the GitLab handbook.
- Developed features and improvements to the GitLab product in a secure, well-tested, and performant way.
- Collaborated with Engineers from other teams to maintain a high bar for quality in a fast-paced, iterative environment.

GYANSYS - Software Engineering Intern   (Jun 2019 - Aug 2019)
- Developed SAPUI5 Web Applications on the SAP Cloud Platform
- Published a Fiori Mobile Application on the SAP App Store with features such as Platform Independence, Cordova, Kapsel plugins, S4D data service integration and a chatbot built on Microsoft Azure.

INDIAN INSTITUTE OF TECHNOLOGY, DELHI - Research Intern   (Jul 2018 - Aug 2018)
- Researched on Peer to Peer Energy Distribution between Electric Vehicles while Maximizing Social Welfare.
- Using an Iterative Double Auction mechanism in Python.

BLOCKCHAIN AT MICHIGAN - Co-Founder and Former Head, Research and Development   (Feb 2018 - Dec 2018)
- Building Michigan leaders in the Blockchain Space. Responsible for research and development initiatives.
- Conducted workshops, taught basics of Ethereum and solidity to students and held training intensive lectures.

RESEARCH

FUTURE OF PROGRAMMING LAB – Hazel Project   (Dec 2019 - Present)
- FP Lab at the University of Michigan designs next-generation user interfaces for next-generation programming languages
- Hazel - live functional programming environment that is able to understand, manipulate, and even run incomplete programs, i.e. programs with holes.

FREE SPEECH TECHNOLOGY - Development team, Multidisciplinary Design Program   (Sep 2018 - April 2019)
- Direct and transitive phone-to-phone communication resistant to outages, blocking, censorship, and surveillance
- Developed Android/iOS microblogging applications.

PROJECTS

NETWORK FILE SERVER   (Nov 2019 - Dec 2019)
- Implemented a multi-threaded, secure network file server using sockets, client-server systems and security protocols.

MEMORY MANAGER   (Oct 2019 - Nov 2019)
- Implemented a pager - part of the kernel that manages application processes' virtual address spaces, using page tables, copy-on-write, "FIFO with second-chance" algorithm etc.

INSTAGRAM CLONE   (Jan 2019 - Feb 2019)
- Implemented an Instagram clone with server-side and client-side dynamic pages and deployed it on AWS and ran on NGINX server (server deployment through GUNICORN).

WIKIPEDIA SEARCH ENGINE   (Mar 2019 - Apr 2019)
- Built a scalable search engine that is similar to a commercial search engine, using information retrieval (tf-idf/PageRank scores)

SKILLS

Languages - C, C++, Python, Java, OCaml, ReasonML, Ruby, Rust, HTML, CSS, JavaScript, Android Java
Libraries - Flask, ReactJS, SAPUI5, NumPy, Matplotlib, SciPy, Hadoop MapReduce
Technologies - Xcode, Visual Studio, NetBeans, Ruby on Rails, Dune, SAP Cloud platform, Bash Scripting, SQL, Git, MongoDB
Certification - Agile Software Development, Ruby on Rails, User Experience, MongoDB Basics (MongoDB University)