

DIBYADARSHI DASH

EDUCATION

UNIVERSITY OF MICHIGAN, ANN ARBOR - College of Engineering (Sep 2017 - Dec 2020)

- **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
- **Organization** - Blockchain at Michigan (Co-Founder and Former Head, Research and Development)

EXPERIENCE

GITLAB - Software Engineering Intern (May 2020 - Aug 2020)

- Worked in the Backend-Editor and Backend-Knowledge teams of GitLab in a fast-paced, iterative(agile) environment.
- Fixed bugs in the static site editor, snippets and wikis, like embedded videos, reorder snippets dynamically, handling non-html requests, etc.
- Developed features (using service response in wiki CRUD operations) and improvements to the GitLab product in a secure, well-tested, and performant way.

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.
- Wrote an Iterative Double Auction mechanism in Python, based on Game Theory.

RESEARCH

FUTURE OF PROGRAMMING LAB – Hazel Project (Dec 2019 - Present)

- Worked on Hazel - live functional programming environment that is able to understand, manipulate, and even run incomplete programs, i.e. programs with holes.
- Developed support for list-literals – recursive data structure that could store holes too and could still be evaluated.

FREE SPEECH TECHNOLOGY - Development team, Multidisciplinary Design Program (Sep 2018 - April 2019)

- Developed Android/iOS microblogging applications that provide direct and transitive phone-to-phone communication resistant to outages, blocking, censorship, and surveillance

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)