

# DIBYADARSHI DASH

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## 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)

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## 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 (added 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.

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## 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

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## 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)

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## 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)