

Nidarshan Siddegowda

408-896-0930 | nidarshans@gmail.com | [linkedin.com/in/nidarshan](https://www.linkedin.com/in/nidarshan) | github.com/nidarshans

EDUCATION

Purdue University

MS in Computer Science, Minor in Physics

West Lafayette, IN

Jan. 2023 – Present

- **Relevant Coursework:** Information Security, Data Mining/Machine Learning, Algorithmic Game Theory

Purdue University

BS in Computer Science, Minor in Physics

West Lafayette, IN

Aug. 2020 – Present

- **Relevant Coursework:** Java/OOP Programming, C Programming, Data Structures/Algorithms, Computer Architecture, Systems Programming, Data Mining/Machine Learning

EXPERIENCE

Audible: An Amazon Company

Software Engineer Intern

June 2023 - Present

Cambridge, MA

- Wrote Java backend to effectively implement promotional listening events on Audible on Alexa
- Worked extensively with AWS CDK and services, such as S3, ECS, SQS, DynamoDB, and OpenSearch, in order to integrate my changes from end-to-end on Audible's Alexa backend service
- Wrote Java unit and integration tests using JUnit and Mockito framework. Added Cloudwatch metrics to trigger alarms and issue tickets based on failure severity

Capital One

Software Engineer Intern

June 2022 – August 2022

San Francisco, CA

- Developed a full-stack application for internal use using React, Node.js, and Java
- Wrote end-to-end and functional UI tests using Cypress framework
- Helped develop the BFF layer using Apollo Server (GraphQL) to effectively service the frontend

Pinger

Software Engineer Intern

February 2022 – May 2022

San Jose, CA

- Worked in an AGILE environment to write and execute XCUI, Espresso tests, and unit tests in order to maintain integrity of the product using both Android Studio and XCode
- Integrated test automation into CI/CD pipelines and Jenkins server
- Responsible for backend build system (Jenkins pipelining), development environment (Vagrant), and tools (Docker)
- Designed and implemented internal tools that helped increase backend team productivity on a day-to-day basis

RESEARCH

Google x Purdue: Tensorflow Model Garden

Undergraduate Researcher

Purdue University

Aug. 2022 - Dec. 2022

- Working in collaboration with Google to help implement and sample state-of-the-art machine learning models on the official TensorFlow Model Garden git repository
- Developed a Res-Net model to correctly classify digits in the MNIST database
- Created a convolutional neural network using the Sequential model class to classify hand pose images as rock, paper, or scissors
- Implemented optimizers for Mesh-RCNN task file to increase efficiency of training

PROJECTS

Cloudflare Blog Platform | *NodeJS, React, Cloudflare Workers API*

- Designed and built a blog platform with a serverless API using CloudFlare's Workers API
- Backend utilizes the Workers KV namespace to store and retrieve blog posts
- Implemented frontend using React

Blublock Blockchain Application | *Python, Flask, OpenSSL*

- A decentralized ledger that keeps track of transactions
- Implemented Python's hashlib library for SHA256 functionality

- Efficient hashing verification using Merkle Trees
- OpenSSL for RSA signatures/encryption and signature verification
- Utilized Python Flask for routing

Cards Against Humanity Simulator | *NodeJS, Socket.IO, HTML, CSS, jQuery*

- Implemented Socket.IO library for real-time, bidirectional communication
- Frontend developed using React (Typescript/NodeJS)
- Backend developed using NodeJS

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, PHP, MATLAB

Frameworks: React, Node.js, Flask, JUnit, Espresso, Cypress, Google Guice

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jira, Jenkins, Linux/Unix, MacOS, Windows, Android Studio, XCode, AWS

Libraries: pandas, NumPy, Matplotlib, Socket.IO, hashlib, Tensorflow, Keras