

Nikhil Dev Mittu

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Education

University of Maryland

Bachelor of Science in Computer Science

College Park, MD

Expected Graduation May 2023

- GPA: 3.972/4.00 Major GPA: 4.00/4.00
- Member of the Honors program (Gemstone honors research program)
- Dean's list every semester

Projects

- Interpreter (Lexer, Parser, and Evaluator) for a subset of the C programming language (Ocaml)
- Program to match strings based off a pattern (regex parser) (Ocaml)

Professional Experience

Google

Remote

STEP Intern

May 2020 – August 2020

- Worked with two other STEP interns to build a capstone project which provided CS courses an improved environment to hold virtual office hours.
- Built a collaborative coding workspace using the Firepad API to allow TA's and students to share code and edits in real-time.
- Developed a code execution feature which allowed users to execute code from their workspace in Docker based containers and get its output in real-time.
- Completed five weeks of STEP starter projects that introduced web development, App Engine and Google API's.

GitHub repo: <https://github.com/googleinterns/step87-2020>

Technical skills: *Java servlets, Javascript, Docker, Google Cloud, App Engine, Compute Engine, Firebase*

NASA Goddard

Greenbelt, MD

Software Development Intern (Employed as an ASRC Federal Contractor)

January 2020 – May 2020

- Worked on the GMSEC Elysium API which converts a custom query language to SQL or Elasticsearch queries.
- The Elysium API is used to store and query GMSEC messages in several different types of databases.
- The API is able to handle storing millions of messages at a time.

Technical skills: *Gradle, Docker, Java, Multithreading, Reactive Streams, Elasticsearch, Git, Bash, Linux*

Software Development Summer Intern

Summers 2017-2019

- Rewrote the Goddard Mission Services Evolution Center (GMSEC) Gradle build plugin in Java to increase maintainability and modularity.
- Assisted a new high school intern on the team to get accustomed to the Gradle plugin.
- Created a continuous delivery pipeline for building the GMSEC API and GMSEC components using Jenkins.
- Created a Gradle plugin that contained Gradle tasks that can be used across all the different GMSEC components.
- Created Docker images that could be used to build the GMSEC API or a GMSEC component.
- Updated and revised GMSEC API documentation and example programs.

Technical skills: *Gradle, Docker, Java, Jenkins, Subversion Git, Bash, Linux*

Hackathons and Coding Challenges

Technica (Logistics Organizer)

April 2020 – Present

- Worked with companies to provide laptops and WiFi to hackers in a virtual hackathon environment.

Bitcamp (Logistics Organizer)

November 2019 – Present

- Worked with companies to provide busses from various universities to Bitcamp.

Google Foobar Challenge

June 2017 – December 2017

- Successfully completed all five levels of the Google Foobar Challenge.

HackUMBC

September 2016

- Developed a virtual assistant app, AsisText, that uses SMS and MMS to give you information that you would normally need the internet for. The app was written in PHP and was developed in about 24 hours. **Won the "Booz Allen Hamilton Most Game Changing Hack"**.

PennApps

September 2016

- Developed a web app, GotGas, that determines the most fuel efficient and least costly route between two locations. The app was written in JavaScript, uses the Google Maps API, and was developed in less than 36 hours. One of the **Top 30** projects.