

[rnat7762@gmail.com](mailto:rnat7762@gmail.com)  
+91 6026819848

# Rahul Nath

[linkedin.com/in/RahulNath](https://linkedin.com/in/RahulNath)  
[github.com/RahulNath](https://github.com/RahulNath)

## EDUCATION

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### National Institute Of Technology, Silchar

B. Tech in Electronics & Communication Engineering, CGPA: 8.21/10.0

Assam, India

Aug 2023 – May 2027

## PROJECTS

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- **CS4400 Group Project: Food Truck Webapp:** A webapp used for organizing Food Trucks. Designed the SQL database schema, including details about location, menu and customer data. Built the backend using Node.js, Express and MySQL. Used React.js and bootstrap to create an appealing frontend.
- **HackGT Hackathon Project: “Alexa Freestyle”:** Used a song lyric API and deep machine learning to generate new songs from existing lyrics. Connected Alexa to Amazon Web Service’s “Lambda” service to handle user requests and exceptions. Utilized an AWS “EC2” instance to host a Flask server to run our algorithm efficiently and cache results.
- **CS2340 Group Project: “RISK”:** A multiplayer webapp version of the boardgame “RISK”. Built the front-end with Vue.js and Bootstrap. Used a Websocket API to connect to a Play Framework backend.

## ACHIEVEMENTS

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- **Georgia Tech Automotive Research Lab:** Software Team Lead for the student-led autonomous car research group. Managed a team of eight students in completing software tasks on time using agile development. Used the Robot Operating System, Python and C++ to implement self-driving algorithms and simulations.
- **Robojackets:** Designed and implemented a new defence strategy for Georgia Tech’s autonomous robot soccer team.

## HONORS & AWARDS

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- **Eagle Scout:** Achieved the rank of Eagle Scout through the Boy Scouts of America.
- **Hyland Hackathon (First Place):** Built an Android app that encourages exercise through a videogame.
- **Capital One SES Hackathon (Second Place):** Built a webapp that predicts Lyft ride-sharing price surges..

## SKILLS

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**Languages:** C++, C,

**Technologies:** Git, Node.js, React, MySQL, MongoDB, Elasticsearch, Flask, AWS, Docker, Linux, HTML/CSS