

# Rohit Kotha

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## EDUCATION

### Birla Institute of Technology and Science (BITS) Pilani

*Bachelor of Engineering in Computer Science, GPA: 7.63/10*

Hyderabad, India

Nov. 2020 – Apr. 2024

## EXPERIENCE

### Amazon

Jul. 2023 – Dec. 2023

*SDE Intern, Amazon Shipping*

*Hyderabad, India*

- Created a new AWS Lambda function to process Image Events, and created a new API to display images for Proof of Delivery on the [ship.amazon.com](https://ship.amazon.com) and [track.amazon.com](https://track.amazon.com) tracking page
- Worked with JAVA Dependency Injection Frameworks Spring, Dagger, Guice and AWS CDK (Cloud Development Kit) in developing Native AWS Applications.

### Swecha

May 2022 – July 2022

*Web Development Intern, Swecha Voice*

*Hyderabad, India*

- Built a web scraper using open-source libraries with python to scrape audio from various sources

## PROJECTS

### StreamShare | *React, Express.js, Node.js, MySQL*

Mar 2022 – Apr 2022

- A web app to share streaming platform passwords and split plan amounts

### Car parking slot booking | *Java, Spring Boot, Apache Maven, React, MySQL*

Nov 2021 – Dec 2021

- A web app to book parking slots for cars and manage them

### Eisen | *C++, OpenGL, GLSL*

Jul 2022 – Present

- A graphics/game engine made using C++ and OpenGL

### Line segment intersection | *C++*

Mar 2023 – Apr 2023

- Line segment intersection algorithm implemented in computational geometry

### Polygon decomposition into convex polygons | *C++, freeglut*

Feb 2023 – Mar 2023

- Implemented a paper to decompose a polygon into convex polygons

### Mask detection | *Python*

Nov 2022 – Dec 2022

- Mask detector app for images and live video

### Primitive Rendering | *C++, freeglut*

Oct 2022 – Nov 2022

- Rendering of lines and simple shapes using bresenham algorithm

### Ray tracing in CUDA | *C++, CUDA*

Dec 2022 – Jan 2022

- Ray tracer made using CUDA

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Java, C/C++, Python, SQL, JavaScript, HTML/CSS

**Frameworks/Libraries:** Spring Boot, Google Guice, React, Express.js, Next.js, Flask

**Developer Tools:** Git, AWS, Azure, VS Code, Visual Studio, IntelliJ