





# Shreyas Athreya

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## EDUCATION

### BITS Pilani K.K Birla Goa Campus

M.Sc. Economics with B.E. Computer Science and Engineering

Aug 2019 - Aug 2024

GPA: 8.16/10

## EXPERIENCE

### Amazon.com, Inc. - Customer Behavior Analytics and Buying Experience

Software Development Engineer, Internship

July 2023 - December 2023

Bengaluru, India

- **Customer Behavior Analytics** - Utilized **Scala**, **Java**, and **AWS** technologies (**DynamoDB**, **Lambda**) to optimize **Apache Spark** Clusters for parallel processing, enhancing the efficiency of Customer Data Deletion Requests.
- **Buying Experience** - Spearheaded improvements on Amazon's Product Detail Page by refining **canary testing**, implementing features to promptly detect errors/wrong renderings, and ensuring timely alerts via **AWS CloudWatch** and notifications to internal teams, utilizing **Typescript**, **Javascript**, **SQL** and other **AWS technologies**.
- Consequentially improved testing efficiency from **70%** to **98%**.

### Village Book Builders (Non-Profit)

Front-End Engineer, Internship (Remote)

May 2021 - July 2021

Orem, USA

- Using **React** and **Javascript**, my team and I developed a front-end portal required for the main website's admin server.
- Added extra functionalities to the library page and employee access features.
- Worked with an international and culturally diverse team aimed at improving the facilities of the non-profit organisation.

## PROJECTS

### 52°North Maps API

API Wrapper, Command Line Interface, Python

Feb 2023 - March 2023

[GitHub Link](#)

- An open source submission which builds a Python API for geospatial and map data supplied by *Open Geospatial Consortium* (OGC)
- Contains a client for a Command Line Interface (CLI) and a wrapper/module which can be imported in python scripts.
- Uses **Python's Click**, **OGC APIs** and **OOP classes** with string manipulation to write wrappers for API requests

### MedChain

Basic Web Development, Cryptography, Python

Aug 2022 - Dec 2022

[GitHub Link](#)

- A basic web application built to implement cryptographic algorithms and ideas **RSA**, **Diffie-Hellman Key Exchange** and **SHA 256** in a real world application.
- Used the above to implement a safe digital interaction between doctors, patients and pharmacists by using Python libraries to encrypt prescriptions.
- Used **Flask**, **HTML** and **Bootstrap** to embed these functionalities in the website

## TECHNICAL SKILLS

**Programming languages:** C++, C, Python, Java, Scala

**Libraries/Modules:** Click, Pandas, C++ STL

**Web Technologies:** HTML, CSS, TypeScript, JavaScript

**Miscellaneous:** MySQL, AWS, Git, Shell

## RELEVANT COURSEWORK

**Computer Science:** Data Structures and Algorithms, Database Management and Systems, Computer Networks, Operating Systems, OOP, Design and Analysis of Algorithms, Compiler Construction, Computer Programming, Theory of Computation, Logic in Computer Science, Cryptography, Foundations of Data Science, Principles of Programming Languages, Discrete Math, Linear Algebra

## MENTORSHIP AND OTHERS

### Course Mentor, Center of Technical Education, BITS Goa:

Aug 2021 - Dec 2021

Taught Mechanics Oscillations and Waves to over 250 first-year students to solve tutorial problems, clarify their doubts and supplement their knowledge from official lectures

### Marketing Manager, Department of Sponsorship and Marketing, BITS Goa:

Aug 2021 - Dec 2021

Worked with my team to raise funds for our college's cultural, technical and sports fests. Personally raised 1.5 Lakhs INR for our technical fest 'Quark'