# Sourav Das

MS - Energy Science and Engineering
Indian Institute Of Technology, Guwahati

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## EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| MS | Indian Institute of Technology, Guwahati | 7.72 | 2021-2023 |
| B.Tech. | Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh | 8.2 | 2017-2021 |

## EXPERIENCE

- **PayU Payments Private Limited []** *July 2024 - Present*
  *Job Title: PRODUCT(CORE PAYMENT)* FTE - Bangalore, India
  - Conducted evaluations of five different payment gateways to measure their performance and effectiveness. This included comparing seamless and non-seamless checkout experiences, resulting in *a 12% increase in transaction speed* and *a 15% improvement in user satisfaction* with the seamless experience.
  - Developed an SQL-based database algorithm that *improved data retrieval efficiency by 18%* through optimized query performance. The algorithm maintained data integrity and *reduced response times by 25%*, effectively addressing user requirements.
  - Focused on the 3D Secure (3DSS) protocol, enhancing transaction security. This involved optimizing the card flow from server-to-server (S2S) and integrating native OTP and token transactions, which resulted in a *2% reduction in fraud incidents* and *a 1% increase in successful authentication rates*.
  - Reviewed the lifecycle of card tokenization, achieving *a 7% improvement in transaction success rates* through the implementation of skip-CVV features. This analysis also enhanced user convenience, reducing checkout time by *3 seconds per transaction* while maintaining robust security.

## PROJECTS

- **Cryptocurrency Application:** *March 2022 - June 2022*
  *React.js, JavaScript, HTML5, CSS3, Bootstrap, CoinGeckoAPI*  Github | Website
  - Developed a *React − based Cryptocurrency Tracking website*, which includes *real time tracking* of trending cryptocurrencies, Market Capitalization. Also shows cryptocurrency prices in different currencies.
- **Canvas Social** *July 2022 - Sep 2022*
  *Django, Python, HTML5, CSS3, Bootstrap*  Github
  - Developed a *Django − based Social Media*. Includes user authentication, apply for conferences, review paper by the admin, asking queries, create account, conference apply status, and submiting paper in the form of pdf as the main features.

## TECHNICAL SKILLS

- **Programming Languages** : Python, Javascript, C
- **Database** : MYSQL
- **Miscellaneous** : Jupyter Notebook, LaTeX ,Vs-Code, API, Confluence, Amazon Quicksight, DBeaver
- **Tools/Frameworks** : React, Django

## KEY COURSES TAKEN

- **Relational Database Management**
- **Operating System**
- **Computer Networks**
- *Node.js − JWT Authentication, GraphQL*
- *System Design*
- *Object − Oriented Programming System*

## KEY COURSES IN MATHEMATICS OF COMPUTATION

- **Probability Theory and Random Processes**
- **Fundamentals Of Computing**
- *Scientific Computing*
- *Introduction to Computers*

## ACHIEVEMENTS

- *LeetCode Badges* Got 5 star on LEETCODE platform.
- *Solved* Questions on CODECHEF platform.
- *Problem Solved* on CODEFORCES platform.