Siddharth Kundu

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EDUCATION

New Jersey Institute of Technology   Newark, NJ
MS in Computer Science   *Expected graduation – May 2025*

PDM College of Engineering   India
BS in Computer Science   *August 2013 – May 2017*

EXPERIENCE

Senior Software Engineer   March 2021 - February 2023
Dotpe   *India*
- **Founding Engineer** of Digital Showroom team.
- **Directed a cross-functional team of 8 engineers** to develop **ecosystem of cross-platform apps**, resulting in a **35% increase** in customer acquisition and a **28% boost in ecommerce market presence** within 6 months.
- **Spearheaded** the creation of DotDesign, an internal design system, which **reduced development time by 25%** and **decreased UI-related bugs by 40%** across projects.
- **Successfully** managed the migration from Redux to React Query for state management. This transition reduced boilerplate code by 30% and improved application performance by 20%.

Software Engineer II   August 2020 – February 2021
Acko Insurance   *India*
- **Spearheaded** the development of a high-performance NextJS web application, scaling to support **100,000 monthly active users**.
- **Implemented** browser performance enhancements that **decreased page load times by 60%**, leading to a **35% increase in user engagement** and a **20% boost in conversion rates**.
- **Initiated and led** cross-team knowledge sharing sessions, resulting in a **40% reduction** in integration-related defects and a **30% increase** in overall team productivity.

Software Engineer   February 2020 – July 2020
Honeybridge   *India*
- **Implemented and deployed** a modern tech stack including Javascript, NextJS, Redux, SCSS, and Tailwind, resulting in a **40% improvement** in development efficiency and a **30% reduction** in time-to-market for new features.
- **Engineered** a responsive and feature-rich user interface that i**ncreased user satisfaction ratings by 45%** and **reduced customer support tickets related to UI issues by 60%**.
- **Implemented** automated testing strategies that increased test coverage from **70% to 95%**, reducing regression issues by **80%** and improving overall software reliability by **40%**.

PROJECTS

PDFReader | *NextJS, Aws S3, OpenAI, PineconeDB, NeonDB*   September 2023 – December 2023
- Architected a dynamic web application with NextJS, TailwindCSS, and shadcn/ui, integrating AWS S3 for scalable document storage and enabling seamless PDF uploads.
- Spearheaded an innovative chat feature using Langchain, OpenAI, PineconeDB, and NeonDB, enhancing user interactivity and responsiveness.

Cosmic Classifier | *Python, Scikit-learn, Pandas, NumPy, Astropy, Seaborn*   February 2024 – March 2024
- Engineered a machine learning model achieving 95% accuracy in classifying celestial objects across 100,000+ astronomical samples.
- Optimized model accuracy through rigorous training and validation on astronomical datasets.
- Implemented PCA and advanced feature engineering, successfully reducing data dimension by 75% while retaining 98% of variance.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Go, HTML/CSS, SQL (Postgres), MongoDB
Frameworks: React, NextJS, Jest, Django, Gin, MaterialUI, TailwindCSS, React Query, Langchain, AWS S3
Developer Tools: Git, Docker, Storybook, Webpack, Github Actions, Jira
Libraries: Pytorch, Pandas, NumPy, Matplotlib, Seaborn