

CHANDRAPRABAN UDHYAYANA KUMAR

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EDUCATION

DUKE UNIVERSITY | DURHAM, NC Aug 2025 - May 2027
Masters in Engineering Management GPA - 3.8
Relevant Coursework: Product Management, Competitive Strategy, Marketing, Managing AI in business, Project Management, Consulting Practicum.

SSN COLLEGE OF ENGINEERING | CHENNAI, INDIA Aug 2018 - Jun 2022
Bachelors in Mechanical engineering GPA - 3.84
Relevant Coursework: Machine Learning Applications, Product Design and Development, Operations Research.

PROFESSIONAL EXPERIENCE

CYBRID | STUDENT CONSULTANT | DUKE UNIVERSITY Jan 2026 - Present

- Driving UK market entry strategy for a stablecoin payments product, leading competitive and customer analysis across business models, target verticals, pricing dynamics, and flow-of-funds use cases to inform positioning and roadmap decisions.
- Evaluating remittance and B2B payment corridors to prioritize high-impact launch markets, while identifying and articulating the product's technical differentiation to support go-to-market strategy.

DEVOPS ENGINEER | CRAYON DATA | CHENNAI, INDIA Nov 2022 - May 2025

- Contributed to an AI-integrated banking platform that drove approximately \$400M in new revenue, partnering with product, data, and engineering teams to improve performance, reliability, and customer outcomes.
- Reduced cloud infrastructure costs by 40% by building automated cost-visibility and optimization capabilities, enabling leadership to make continuous, data-driven investment decisions.
- Led the re-architecture of a core recommendation platform into a cloud-agnostic, multi-cloud solution (AWS, Azure, GCP, OCI + CDN), improving global latency by 30% and consistently achieving <100ms API responses.
- Designed and launched developer productivity platforms (CI/CD + Infrastructure as Code) that increased deployment velocity by 60%, improved release quality, and reduced enterprise client onboarding time by 60%.
- Drove a production reliability transformation, introducing standardized incident management and automated recovery, cutting average time to resolution by 75% across critical services.
- Partnered with senior leadership to define cloud architecture, automation, and operational standards, scaling adoption across teams and reducing manual operational effort by 85%+.
- Led delivery of a secure, AI-enabled customer onboarding application for a Tier-1 African bank, balancing time-to-market, infrastructure cost, and strict regulatory/security requirements.
- Owned disaster recovery strategy for live banking clients, meeting RTO/RPO commitments and enhancing SLAs across regions.
- Led a security-by-design platform initiative, standardizing WAF, network security, and privileged access controls to support compliant, enterprise-grade product growth

CUSTOMER SCIENTIST | CRAYON DATA | CHENNAI, INDIA Mar 2022 - Oct 2022

- Developed customer-focused data visualizations to help internal teams understand user spending behaviour and growth opportunities.
- Improved merchant onboarding by building tools for data cleaning, pattern matching and automated image standardization for major financial clients(HDFC, HSBC, ADIB and Amex).

NLC INDIA LIMITED | PROJECT INTERN | NEYVELI, INDIA Apr 2021 - May 2021

- Assessed the efficiency and cost impact of auxiliary high-pressure boiler outages on a thermal power plant's regenerative system performance. Calculated about INR 2 Cr (250K USD approx.) of excess cost in case of heater outage.

ACADEMIC PROJECTS AND LEADERSHIP

EXTERNAL AFFAIRS LEAD | MEM SUPPLY CHAIN MANAGEMENT CLUB | DUKE UNIVERSITY Dec 2025 - Present

- Coordinating event planning and outreach initiatives as a core member of the club to grow club engagement, manage timelines and align activities with members and industry interests.
- Led the primary initiative to collaborate with the ASCM Greater NC triangle Chapter to host and participate in events such as case competitions, simulations and webinars.

CABINET MEMBER | MEM VIBE CODING CLUB | DUKE UNIVERSITY Jan 2026 - Present

- Contribute in organizing coding-focused events such as webinars and seminars, coordinating attendee management and logistics.
- Led social media outreach for Vibe Coding Club, growing visibility and engagement across platforms.

UNDERGRADUATE RESEARCHER | EXPERIMENTAL ANALYSIS OF DRILLING OF Mg MMCs | SSN CE Jun 2022

- Conducted an experimental project to evaluate the drilling characteristics of metal matrix composites. Fabricated the magnesium MMC with varying concentrations of B4C reinforcement and performed drilling to analyze drilling parameters.

UNDERGRADUATE RESEARCHER | HUMAN BODY FATIGUE MEASURING DEVICE | SSNCE May 2021

- Designed and fabricated a device to measure human body fatigue, aiding in COVID-19 detection at crowded workplaces.

SKILLS AND CERTIFICATIONS

Tools: Python, Jira, SQL, Linux, Containerization, CI/CD, AWS, Azure, Git, Bitbucket, Jenkins, Ansible, Terraform, k8s, Tableau, Power BI, MS Excel, MS projects, Confluence, Asana.

Program/Project: Project Planning & Execution, Product Business & strategy, Market and Competitive Analysis, A/B testing, Business Analysis, Agile methodologies, SDLC, User experience, Strategy, Documentation and reporting, Change management, Risk & Issue Management.

Certifications: [Agile Practice with Jira](#), [AWS solutions architect – Associate](#), [Foundations of Project Management \(Coursera\)](#), [Python of Data Science \(Coursera\)](#), [AutoCAD Essential](#), [Data Analysis using Pyspark \(Coursera\)](#).