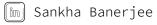
# Sankha Banerjee

## Senior Software Engineer



sbneo2022







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#### **EXPERIENCE**

## LOMBARD PROTOCOL | HEAD OF PROTOCOL RESEARCH

Jan 2025 - Current

- → Launched a first-of-its-kind Bitcoin liquid-staking product on Cosmos-SDK, defining vision, GTM, and technical spec; delivered a roadmap that onboarded 20K BTC (\$1B TVL) in the first 60 days.
- → Built and led a 9-person cross-functional squad (research, eng., design, compliance) to reduce the research-to-prototype cycle time by 40%.
- → Instituted a data-driven product discovery loop that uncovered two high-value enterprise DeFi use cases.

#### BABYLON LABS | HEAD OF PRODUCT

Jun 2023 – Dec 2024

- → Co-authored the economic design and white-paper that secured \$90M SeriesA from Paradigm, Bullish and Polychain; owned tokenomics, fee-capture model and investor narrative.
- → Drove main-net partnership strategy with Osmosis + Cosmos-Hub; shipped an IBC-compatible staking module adopted via governance with 99.4% "Yes" votes.
- → Owned end-to-end product strategy for BTC-secured finality & staking-as-a-service; grew validator adoption from  $0 \rightarrow 120+$  nodes within the first release train.
- → Translated complex cryptoeconomic trade-offs into product features (e.g., parameterized slashing, AVS registry), enabling the founders and the engineers to make roadmap decisions 2X faster.

#### THORCHAIN | SOFTWARE DEVELOPER

Jun 2019 - Aug 2022

- → Designed and implemented cross-chain incentive pendulum algorithms (Cosmos  $\leftrightarrow$  BNB) that boosted swap volume by 6X and reduced impermanent loss by 30%.
- → Scaled thorchain validator infrastructure to support 3× traffic growth during market spikes with zero downtime.
- → Advised early Cosmos projects (Kava, Akash, Band) on tokenomics and launch playbooks, helping each raise >\$5M.

#### **EASTMORE GROUP** | QUANT TRADER

Jan 2017 - Jan 2019

- → Ran a multi-strategy crypto futures book achieving Sharpe>1.5 via statistical-arbitrage & trend-following models; AUM\$5M.
- → Built a real-time ML pipeline (BitMEX order-book + news sentiment) that improved trade-signal accuracy by 18% and scaled to 50K ticks/sec.
- → Ran a multi-strategy crypto futures book achieving Sharpe>1.5 via statistical-arbitrage & trend-following models; AUM\$5M.

## CCI (CITADEL NATURAL GAS DESK) | QUANTITATIVE RESEARCHER/TRADER

Nov 2013 - Mar 2016

- → Built/Managed the Python trading platform for power & gas derivatives, integrating weather/load fundamentals; increased desk revenue by \$10M YoY.
- → Implemented timeseries infrastructure in InfluxDB and MLflow-based experiment tracking, boosting model refresh cadence from weekly to daily.

## SKILLS

#### **PROGRAMMING**

Proficient:

Golang • Rust • JavaScript • Python SQL •

Experienced:

Python • LATEX • Golang

Familiar:

Rust • Bash

### **TOOLS/PLATFORMS**

Wordpress • Docker

#### **EDUCATION**

## MASSACHUSETTS INSTI-**TUTE OF TECHNOLOGY**

PhD in Mechanical/Applied **MATHEMATICS** 2012 | Cambridge, MA Cum. GPA: 4.0/4.0

## **TECHNICAL UNIVERSITY** MUNICH

BACHELOR'S IN COMPUTER SCIENCE AND PHYSICS 2007 | Munich, Germany Cum. GPA: 4.0 / 4.0

## REFERENCES

David Tse, Founder, Babylon

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Sunny Agarwal, Founder, Osmosis

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