

Aniket Biswas

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EDUCATION

Indian Institute of Technology (IIT) Kharagpur

Integrated B.S. + M.S. in Mathematics and Computing | CGPA: 7.5/10

Jul 2015 – Jun 2020

Kharagpur, India

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C++, Swift, Kotlin, C#, Go, SQL

Frameworks: React, React Native, Node.js, GraphQL, .NET Core, TensorFlow

Cloud & AI: Azure (App Service, AI Foundry), MCP, OpenAI API, Anthropic API, Microsoft AI Tools

Tools: Git, CI/CD, KQL, NoSQL (CosmosDB), Android Native WebView, RESTful API Design

PROFESSIONAL EXPERIENCE

Microsoft

Software Engineer 2 | Current team: OneDrive and SharePoint

Mar 2023 – Present

Hyderabad, India

- Engineered a custom Native Android WebView exposed as a React Native module with disk-based caching and request interception, reducing page load times by **57%** (12.9s to 5.5s).
- Led the **SharePoint News API migration**, delivering revamped architecture and modern UX while mentoring 2 engineers for on-time delivery.
- Owned end-to-end delivery of high-impact React Native features for **3M+ users**, collaborating with stakeholders to maintain **99.9% reliability**.
- Architected a config-based component framework, enabling **40% faster** feature development and onboarding for partner teams.
- Authored the **AI Harness**, a contract-driven framework for spec-validated LLM-assisted engineering.

Microsoft

Software Engineer

Jul 2020 – Mar 2023

Hyderabad, India

- Architected a performant notification system via rigorous API contracts, ensuring low-latency delivery and UI state consistency across partner apps in **Microsoft Teams**.
- Engineered a data scoping paradigm for **5+ enterprise scenarios** in a shared JS runtime, enhancing code modularity and security.
- Developed a robust link interception module, directing **2M+ users** to correct in-app experiences with **99.9% production reliability**.
- Created in-app developer diagnostic tools that reduced debugging time by **60+ man-hours monthly**, boosting overall team velocity.

Samsung Research Institute

Research Intern (Deep Learning)

May 2019 – Jul 2019

Bengaluru, India

- Developed a DL solution to eliminate manual calibration for wearable controllers using TensorFlow and Keras for real-time data.
- Engineered a specialized RNN model to predict calibration parameters, achieving a **75% error reduction** via custom loss functions.

Prakshep

Data Science Intern

May 2018 – Jun 2018

Bengaluru, India

- Analyzed Sentinel-2 satellite imagery using Python and OpenCV to classify water bodies and agricultural lands with high accuracy.
- Designed statistical Z-score models for spectral indices to identify harvest windows and outlier plots for precision farming insights.

Farebond

Data Science Intern

May 2017 – Aug 2017

Bengaluru, India

- Built a tier-based pricing model for flight fare locks, categorizing flights by volatility to optimize revenue margins and conversion.
- Developed an automated reporting system using R and R Markdown, saving **60+ man-hours** of manual data entry work monthly.

TECHNICAL PROJECTS

Obsidian MCP Server | GitHub

TypeScript, Node.js, Model Context Protocol (MCP)

2025

- Developed an MCP server enabling LLMs to interact with Obsidian vaults for automated note management and searching.
- Implemented secure file system operations and integrated with Obsidian REST API to provide real-time context to AI agents.

Portfolio Website | aniketbiswas.dev

React, JavaScript, Gatsby, GraphQL

2025

- Built a Gatsby portfolio with GraphQL-sourced Markdown content and a client-fetched Medium RSS feed.
- Added responsive layouts and explicit feed loading, retry, and error handling.

CERTIFICATIONS

- AI Readiness: Intermediate Proficiency, AI Foundations (Skillup AI IDC)
- Anthropic: Introduction to Model Context Protocol & Model Context Protocol: Advanced Implementation Topics