

# EKRAMUL ISLAM

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## EDUCATION

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### Monash University

Master of Data Science

Melbourne, Australia

Jul 2025 – Nov 2026

- **Coursework:** Data Wrangling, Software Engineering, Bioinformatics, Machine Learning, Data Visualisation, Data Analytics, Algorithms and Data Structures, Deep Learning, Theory of Computation

### Monash University

Bachelor of Computer Science (Data Science)

Melbourne, Australia

Jul 2022 – Jul 2025

- Awarded High Achievers Scholarship

## PROJECTS

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**LinkedHive** | *React Native, Expo, Next.js 16, TypeScript, Supabase, Drizzle ORM, Stripe*

[Website](#) | [iOS](#) | 2025–2026

- Built a cross-platform (iOS, Android, Web) location-based community and business networking app for Australian suburbs, featuring real-time chat, posts, events, jobs, and local deals
- Engineered full-stack backend with Next.js API routes, PostgreSQL via Supabase, and Drizzle ORM covering 20+ entity types
- Integrated Google Gemini 2.5 Flash AI for real-time content translation and summarisation across posts, news, events, and job listings
- Implemented Stripe subscription billing (\$149 AUD/year premium) with webhook handling and Resend transactional emails

**TimeBreak** | *Swift, SwiftUI, WidgetKit, ActivityKit, AppIntents, EventKit*

[GitHub](#) | [iOS](#) | [macOS](#) | 2026

- Built a native Pomodoro timer for iOS and macOS with an analog clock interface, running on a single SwiftUI codebase across iPhone, iPad, and Mac with a dedicated menu bar app
- Implemented Live Activities and WidgetKit Focus Trail widget to surface session state on Lock Screen and Home Screen without opening the app
- Integrated EventKit for Reminders surfacing during focus sessions, custom theme picker, timer sounds, and guided onboarding flow

**LynkSphere Website** | *Next.js 15, TypeScript, Tailwind CSS, Framer Motion, GSAP, Three.js*

[Website](#) | 2026

- Built production marketing site with rich 3D animations showcasing services, products, and pricing
- Served as primary customer acquisition channel, contributing to \$30K AUD revenue in 3 months

**Personal Portfolio Website** | *Next.js 15, TypeScript, Tailwind CSS v4, Framer Motion, HTML5 Canvas*

[Website](#) | 2026

- Engineered a brutalist-themed developer portfolio with a hero terminal that simulates a live `zsh` session — staged typewriter commands animate character-by-character, followed by a 20-slot ASCII progress bar built from Unicode LIGHT SHADE blocks (U+2591) that fills 0%–100% via a `requestAnimationFrame` tick loop before surfacing the ready prompt
- Built a real-time rotating DNA double helix background using raw HTML5 Canvas 2D API — 16-node dual strands with rung base-pair labels (A–T, G–C), skill annotations (bioinformatics and CS stack) rendered at per-frame opacity derived from sine/cosine Z-depth, running at 60 fps
- Architected a custom `TerminalFrame` component styled after macOS Terminal with traffic-light window controls, Space Mono typeface, and an #FF6600 brutalist orange accent; eliminated layout shift on animation completion by keeping downstream elements always mounted and toggling opacity via Framer Motion
- Integrated Lenis smooth scroll, scroll-triggered Framer Motion entrance animations per section, and a contact form backed by Nodemailer with server-side API route validation

**AFL Game Ranking System** | *Next.js, React, Python, CatBoost, MongoDB, Pandas, Scikit-learn, Plotly.js, Tailwind* [GitHub](#) | 2025

- Trained `CatBoostRegressor` models on historical AFL data with Python subprocess integration via Next.js API routes, achieving 78% match outcome accuracy
- Built REST API endpoints connecting React frontend to ML backend, with MongoDB for team and player data storage
- Visualised team performance and player stats using Plotly.js and Chart.js with interactive filtering

**Visualizing Renewable Energy** | *Vega-Lite, Vega-Embed, TopoJSON, Python, HTML/CSS*

[Website](#) | 2024

- Built an interactive data visualisation dashboard exploring global renewable energy trends using World Bank dataset, featuring 5 chart idioms: choropleth map, bar chart, stacked area, and donut chart

- Implemented declarative Vega-Lite specs with interactive filters, tooltips, and cross-chart linking; preprocessed raw CSV data with a Python cleaning script

**F1 Pinnacle of Motor Sports** | *Tableau, Data Visualisation, Statistical Analysis* [Tableau Public](#) | 2024

- Built interactive dashboards with calculated fields, filters, and parameter controls displaying driver nationality, constructor performance trends, and season-by-season comparisons across decades of F1 data

**Android Call State Monitor** | *Java, Android SDK, BroadcastReceiver, TelephonyManager, Gradle* [GitHub](#) | 2024

- Built an Android app using BroadcastReceiver and TelephonyManager to intercept call state changes (ringing, offhook, idle) and surface incoming caller ID via Toast notifications in real time
- Configured READ\_PHONE\_STATE, PROCESS\_OUTGOING\_CALLS, and READ\_CALL\_LOG permissions with runtime permission handling

**Hearts Game** | *Python, OOP, AI Heuristics, Modular Architecture* [GitHub](#) | 2023

- Built a terminal-based Hearts card game in Python with full game logic, trick-taking mechanics, and score tracking using OOP with modular player, card, and round classes
- Implemented two AI opponent strategies — a basic rule-based agent and an improved heuristic AI — for single and multi-player modes

LEADERSHIP

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**Kingston Business Network** *Melbourne, Australia*

- Represented LynkSphere and delivered a startup-focused talk on how founders can start, position, and grow a successful business

**BNI Melbourne** *Melbourne, Australia*

- Took part in BNI Melbourne’s short story program, presenting LynkSphere’s work in software and startup development to a business audience

**Monash Generator Representative** *Monash University*

- Represented Monash Generator at new student orientation, briefing incoming cohorts on entrepreneurship programs, startup resources, and business development opportunities

**Go-Global Day Representative** *Monash University Prato, Italy*

- Represented Monash Prato campus to 200+ students of Monash University Malaysia as the main event representative

**Pisa Tour Leader** *Monash University Prato, Italy*

- Guided a group of 5 students across Pisa, delivering a speech on the historical significance of key sites including the Leaning Tower of Pisa

**Class Leader – MGX3991** *Monash University Prato, Italy*

- Led a 45-minute student session, keeping the cohort engaged through interactive activities and a two-week recap

**MUVP x RMM Outreach Event** *NGO, Kuala Lumpur, Malaysia*

- Conducted an educational class for orphaned children as part of a university outreach initiative

WORK EXPERIENCE

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**Co-Founder & CEO** Dec 2024 – Present

*LynkSphere* *Melbourne, Australia*

- Co-founded a software studio delivering iOS, Android, and web applications to Australian startups and B2B clients using React Native, Next.js, SwiftUI, and Supabase
- Grew from zero to ~\$30,000 AUD revenue within 3 months, shipping 3 production applications including a 14-month cross-platform community platform (LinkedHive)
- Managed full client lifecycle from technical scoping and architecture through to deployment and post-launch support
- Acquired clients through pitches at BNI Australia, StartSpace Library, and Entrepreneurs Summit 2026

CORE SKILLS

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**Languages:** Python, Java, JavaScript, TypeScript, Swift, Kotlin, Bash, R, SQL, HTML/CSS/Tailwind

**Technologies:** Android, iOS, MongoDB, ReactJS, NodeJS, Next.js, Flutter, AWS, Google Cloud

**Tools:** Jupyter, Tableau, RStudio, VS Code, Git, GitHub, Docker, Xcode, Firebase, GeminiAPI

**Data & Bioinformatics:** NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, limma, DESeq2, RNA-seq analysis, GO enrichment analysis, Bioconductor

**Soft Skills:** Leadership, Decision Making, Technical Communication, Public Speaking, Agile Methodologies, Mentorship, Conflict Resolution, Negotiation