

# NAIM BARNETT

## Full-Stack Software Engineer | AI-Driven Products | React Native & Web Systems

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### PROFESSIONAL SUMMARY

Full-stack software engineer with experience building AI-driven applications and internal tools. Background in ML combined with hands-on product development using React Native and cloud-backed systems. Builds intuitive, scalable applications that improve user experience and operational efficiency.

### EXPERIENCE

#### OpenAI Forum – Local Lead (Texas)

2025 – Present

Fort Worth / Dallas, TX

- Grew a regional AI community by **organizing events** and initiatives around **real-world AI applications**, increasing engagement across engineers and researchers
- Delivered high-impact AI programming by **partnering with organizations, including Spurs Sports & Entertainment**, expanding community reach and collaboration opportunities
- Facilitated discussions that bridge engineers, researchers, and product practitioners to drive knowledge sharing and collaboration

#### AI Researcher (NDA-Protected Project), OpenAI

Mar 2024 - Aug 2024

- Exposed critical LLM failure modes by **designing adversarial and edge-case prompts**, improving robustness testing coverage
- Improved evaluation dataset quality by **benchmarking and scoring datasets for difficulty and failure exposure**, enabling more effective model testing
- Enhanced model reliability by **identifying failure modes** affecting user experience and system performance, informing targeted improvements

#### Tooling Engineer, Lockheed Martin – Missiles & Fire Control

Jun 2021 - Present

- Reduced operational costs by **\$281K annually** by leading performance metrics initiatives and identifying process inefficiencies
- Improved engineering workflow efficiency by **developing internal tools and automation systems**, reducing manual processes, and increasing throughput
- Increased operational efficiency by **applying automation and data-driven methods**, streamlining production workflows, and reducing bottlenecks
- Led onboarding and training initiatives, improving team productivity and standardization

#### NASA Research, Trinity University

Jun 2019 - Aug 2019

- Analyzed Quasar 2237 using NASA's Chandra X-ray Observatory data, applying statistical and physics-based modeling to study supermassive black hole accretion.

### PROJECTS

#### Full-Stack Mobile Application Development (Independent Projects)

React Native • Expo • Supabase • JavaScript • TypeScript

- Built **Huni**, a full-stack note-sharing platform enabling real-time collaboration, supporting **live data syncing and persistent cloud storage** through scalable backend architecture
- Developed **Sonder**, an immersive mobile experience using GLView, enhancing user engagement through **interactive UI and ambient visual feedback systems**
- Created **INGEN**, a full-stack project collaboration platform connecting users to active projects, enabling **real-time participation**, structured workflows, and user-driven collaboration
- Enabled real-time interactions and persistent data storage by **designing scalable backend systems (APIs, database schemas, cloud storage)**
- Applications are currently in active development with planned production release

#### Technical Projects

- Improved model performance by **building and optimizing ML models using TensorFlow and PyTorch**, achieving measurable gains in accuracy and efficiency
- Developed predictive models (e.g., MLP for socioeconomic data) and evaluated performance improvements
- Processed and analyzed text data at scale by **implementing NLP pipelines using NLTK, NumPy, and Pandas**, enabling structured data insights

### TECHNICAL SKILLS

#### Full-Stack Development

React Native, JavaScript, TypeScript, SQL, Supabase, REST APIs

#### Backend & Systems

API design, database architecture, real-time systems, cloud storage, authentication

#### AI/ML

PyTorch, TensorFlow, Scikit-learn, NLP, model evaluation

#### Data

NumPy, Pandas

#### Tools & Platforms

Git, Linux

### EDUCATION

#### M.S. Computer Science (Artificial Intelligence)

Southern Methodist University  
August 2025

#### B.S. Engineering Science

Trinity University  
May 2021

Minors: Mathematics & Physics

### PUBLICATIONS

#### Generalizing Classification of Pilot Workload: Transfer Learning vs. a JEPA-Inspired Transformer Architecture

Barnett, N., Nagrecha, S., Glover, M., Harper, C., Wilson, J., Maher, J., & Larson, E. C.  
International Journal of Aviation, Aeronautics, and Aerospace, 12(1), 2025  
DOI: 10.58940/2374-6793.197