

MATTHEW POOL

Software Engineer | Product Designer

UI/UX / Native Mobile / Full-Stack Web / Interactive Media / AI/ML



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Winnsboro, TX



matthew-pool.github.io

PROFESSIONAL SUMMARY

Software Engineer and Product Designer with a B.S. in Computer Science (3.99 GPA). Merges advanced technical proficiency in native Android (Kotlin, Jetpack Compose) and AI integration with a deep understanding of user needs derived from a background in sales and support. Architect of *Flick*, a production-grade application featuring ML-powered recommendations and secure backend infrastructure. Expertise spans the full software lifecycle, prioritizing clean architecture, automated testing (CI/CD), and accessible, high-performance design.

EDUCATION

Bachelor of Science in Computer Science

Southern New Hampshire University (Manchester, NH) • Sep 2021 - Dec 2024

🏆 Summa Cum Laude • 3.99 GPA • President's List (2023-2024)

ertificate in Data Analysis • uCertify (2024)

Associate of Arts in General Studies

Tyler Junior College (Tyler, TX) • Aug 2003 - May 2005

TECHNICAL SKILLS

Design & Graphics

UI/UX Design, Figma, LucidChart, Adobe Creative Suite, Responsive Design, User Flows & Information Architecture

Programming Languages

Python, JavaScript, TypeScript, Kotlin, Java, C/C++, C#, SQL

Mobile & Interactive

Android SDK, Jetpack Compose, Material Design 3, Unity, OpenGL/GLSL, MVVM Architecture, Coroutines, Hilt, Firebase, REST APIs

Web Technologies

React, Node.js, HTML5, CSS3, Vite, MEAN/MERN, MVC, Bootstrap, Tailwind CSS, Spring Boot

Databases

SQL, MongoDB, Firebase Firestore, DynamoDB

DevOps & Tools

Git/GitHub, GitHub Actions, CI/CD, Docker, AWS, Gradle, Maven, Agile/Scrum, SDLC, Software Design Patterns

Testing & Security

JUnit, MockK, Espresso, Jacoco, OWASP Dependency-Check, Snyk, RSA/AES/CA/TLS, Unit Testing, Integration Testing, Instrumented Testing

Data Science & ML

TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook, AI/ML (DNN, DQN, CDNN, MDV)

PROFESSIONAL EXPERIENCE

Lead Software Engineer & Product Designer

Jan 2025 - Present

AppBuddy (Independent Venture)

- **Product Strategy & Execution:** Architected and launched Flick, a complex native Android video streaming platform.
- **Android Engineering Architecture:** Engineered a scalable native Android application using Kotlin and Jetpack Compose (Material Design 3); implemented clean architecture (MVVM), Hilt dependency injection, and offline-first data synchronization.
- **ML-Driven Personalization:** Designed and deployed a proprietary content recommendation engine that analyzes user engagement signals to dynamically rank video feeds.
- **Infrastructure Optimization:** Engineered a cost-efficient backend strategy by integrating Retrofit with the Archive.org API, leveraging public domain assets to reduce content delivery costs to near-zero.
- **DevOps & Quality Assurance:** built a robust CI/CD pipeline via GitHub Actions, automating unit (JUnit/MockK) and UI tests (Espresso) to ensure virtually crash-free sessions in production.

Career Break & Independent Projects

Jan 2014 - Oct 2021

Winnsboro, TX

Planned career break to manage family operations and execute independent construction projects.

- **Family Operations Management:** Served as primary caregiver and home manager (2015-2020), facilitating spouse's return to academia (BBA, 2017-2019) and managing logistics for a family of five.
- **Construction & Engineering:** Designed and constructed a residential structure (2-room tiny home) from raw materials (2010/Ongoing); managed resource allocation, structural planning, and electrical/finish work.
- **Woodworking & Design:** Executed custom woodworking projects for Diamond G Cedar (2014), managing inventory, client specifications, and delivery schedules.

PREVIOUS PROFESSIONAL EXPERIENCE

Technical Support & IT Operations (2011 - 2013)

Desktop Support Specialist • Sutherland (2013)

Tech Support Rep • National Electronics Warranty / DirecTV (2011-2012)

Tech Support Agent • TeleNetwork / Frontier Communications (2011)

- Provided remote technical support for desktop environments, VoIP systems, and ISP infrastructure across multiple platforms.
- Diagnosed complex hardware/software issues via remote desktop connections and documented solutions in CRM knowledge bases.
- Consistently exceeded call volume targets and customer satisfaction metrics while identifying upselling opportunities.

Sales & Retail Operations (2004 - 2010)

Retail Operations • Kmart (2009-2010)

Sales Associate • T.C.I.M. Services (2004-2009)

- Top-performing B2C/B2B representative for enterprise clients (AT&T, Amex, QVC, Citibank, and others), managing customer accounts and leveraging effective communication to consistently exceed performance KPIs and retention targets.
- Solely obtained Texas State Insurance License within the branch; developed scripts and trained junior sales teams.
- Maintained operational excellence in retail environments requiring punctuality and inventory management.