

# AKHIL JACOB

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## SUMMARY

Entrepreneurial software engineer specializing in building innovative, zero-to-one AI-driven applications and scalable backend systems. Proven success launching products that rapidly scale user adoption and optimizing complex architectures in startup and enterprise environments. Expert in Flutter, Next.js, GCP, and AI technologies, passionate about creating impactful, user-focused solutions through rapid iteration.

## WORK

### Modrn Magic Apps / Founder & Lead Developer / Remote

May 2023 - Present

- Scaled user adoption to 10,000+ users across multiple products under Modrn Magic (<https://modrnmagic.app>) by rapidly iterating on features and architectures, delivering reliable, user-centered solutions. Built within Flutter, Next.js, GCP.
- Key Projects:
  - Inboxhive: Created a podcast summarization platform that uses AI to transform audio into newsletter highlights
  - HypeBridge: Built an Agentic AI-driven influencer marketing platform that automates brand discovery & outreach
  - Nookly: Built an Uber-style home services app with Flutter and Firebase for efficient scheduling and management
  - Additional Projects: Conversational AI, productivity, and mobile gaming. More details at [akhilcjacob.com/projects](https://akhilcjacob.com/projects)

### Datavant / Software Engineer II, Identified Data / Remote

March 2022 - May 2023

- Developed a containerized auth system with Docker, Kotlin, and Rego, supporting OAuth2/OpenID Connect for authentication and scope-based authorization across users, apps, and APIs.
- Built and optimized a Python-based healthcare data production microservices with retry logic and failure prevention, improving data retrieval efficiency and reliability
- Led the implementation of an automated data retrieval system, replacing a manual process that took days with a faster, configurable solution that completed in minutes

### Microsoft / Software Engineer, Azure Identity / Seattle, Washington

August 2019 - February 2022

- Led development of an automated config deployment platform in C#, reducing deployment time and ensured smooth migration with custom tools
- Enhanced identity management tooling for Azure Active Directory by implementing new API (C#) and UI (JavaScript/Knockout/CsHtml) features for first-party applications, improving user experience and system functionality
- Led development of an automated deployment platform in C#, reducing deployment time by 40% and ensuring smooth migration with custom tools

### Bank of America / Software Engineering Intern / Jersey City, New Jersey

June 2018 - August 2018

- Developed a Scala application to ingest JavaScript errors and contextual information, storing them into a Postgres instance, enabling developers to diagnose and resolve issues

### Our.News / Co-Founder & Full Stack Developer / Troy, New York

April 2018 - July 2018

- Redesigned user experience and upgraded site capabilities using Python, PHP, SQL, JavaScript, and jQuery,
- Boosted team productivity by implementing code reviews, quality guidelines, workflow management, and issue tracking
- Created portable web components using Stencil.js for partner companies, expanding product integration and market reach

### MITRE Corp / Software Engineering Intern / Bedford, Massachusetts

June 2017 - August 2017

- Developed a JavaFX application to sanitize classified documents and generate output files in various formats (PDF, text, Word), streamlining document processing
- Practiced Agile and Scrum in 2-week sprints with 3 other developers
- Saved Air Force personnel 7 hours per week by automating manual document sanitization processes
- Collaborated with users to resolve issues and enhance application features, improving user satisfaction
- Presented project outcomes to senior military officials and MITRE leadership, showcasing application benefits

## EDUCATION

### Rensselaer Polytechnic Institute / Troy, New York

August 2016 - May 2019

- Bachelor of Science in Computer Engineering
- Coursework: Algorithmic Robotics, Embedded Control, Applied Parallel Computing, Computer Arch., Internet of Things (IOT)

## SKILLS

- **Languages**: Dart, Java, C++, Python, C, C#, JavaScript, GoLang, Shell
- **Libraries**: Vue.js, React.js, Flutter, Next.js
- **Methodologies**: Agile, Scrum, TDD, CI/CD
- **AI**: GPT, Gemini, OpenRouter
- **DevOps/Tools**: Git, Docker, Nginx, Azure DevOps, Jenkins, Firebase
- **Database**: MySQL, Postgres, Azure DocDb