

DILLON ROSE

Full Stack Engineer

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SUMMARY

I am a Full Stack Engineer with 10 years of experience specializing in building AI-powered user experiences. I have led the development of two projects from inception to over 1M monthly active users. I have a solid grasp of the processes and structures required to deliver new features, while ensuring live site reliability and maintaining code health. The expertise I gathered while working on Microsoft Copilot positions me to contribute significantly to any AI-powered experience.

TECHNICAL SKILLS

React	Next.js	Python
C#	VSCode	AI Fluent

SOFT SKILLS

Technical documentation
Cross-Functional Collaboration
Cross-Org Communication
Security Best Practices
Data Governance

INTERESTS

- 🖥 Side projects
- 🎸 Guitar
- 🔧 Construction
- 🧗 Rock climbing

EXPERIENCE

Principal Software Engineer

Microsoft Copilot

📅 01/2023 - Present

- Shipped Microsoft Copilot on Teams, Outlook, Windows, Bing, Office.com and the standalone site serving ~7M daily active users
- Designed full stack solution for Turn 0 Prompt Suggestions which initiate ~3% of sessions
- Designed and developed Teaching Moments feature serving 10+ tutorials to onboard users and upsell the paid feature set
- Reduced time from commit to production from 2 weeks to 3 days by re-architecting the deployment strategy
- Serving as the Technical Lead for the Microsoft Copilot Client Platform team, responsible for reliability, user perceived latency, authentication, flighting, etc

Senior Software Engineer

Cortana

📅 01/2017 - 01/2023

- Developed email search and composition capabilities for the initial launch of Cortana Invoke
- Incubated and scaled 'Play My Emails' feature to over 1M monthly active users
- Led team of 5 engineers through full rewrite of service powering 'Play My Emails' feature
- Improved user experience by designing custom audio streaming protocol for email readouts
- Created variable playback speed feature based on feedback from user panels

Software Engineer II

Microsoft Maps

📅 01/2016 - 01/2017

- Enhanced user experience by optimizing map icons displayed across multiple zoom levels on Bing Maps
- Developed Offline Search capabilities in the Windows Map app by re-architecting Bing's online search stack
- Defined strategy for selecting which locations and businesses would be downloaded for offline search

Software Engineer

Bing

📅 06/2014 - 01/2016

- Enhanced user satisfaction by optimizing a classifier and a ranker in Bing Local Search stack
- Reduced latency and business costs by developing rule-based classifier to serve head queries

ACHIEVEMENTS

- 💎 **Copilot for All**
Expanded the Copilot user base by 10x by adding support for unlicensed business users and licensed consumer users. Projected to generate 80M new licenses and \$28 billion in annual revenue.
- 💎 **Knowledge Sharing Series**
Led organization-wide learning series. Starting from the beginning of the development of Copilot to now, there have been 55 talks covering React basics, zustand, authentication, testability, performance, transformers, etc. I personally presented on VectorDBs, LangChain, scorecards and "The Effective Engineer" by Edmond Lau.

EDUCATION

Dual B.S. in Computer Science and Mathematical Sciences

Florida Institute of Technology

📅 09/2010 - 05/2014