Seth Arvila

Design Engineer

Fargo, ND
setharvila.com

EXPERIENCE

Software Engineer

Microsoft • November 2025 – Present

- Owned a segmented data entry control from early prototype to platform-wide release in D365 Finance & Operations: a React/TypeScript component inside the X++ framework that splits one field into structured sub-fields, replacing free text that depended on users typing delimiters correctly.
- Built AI agent skills that update documentation from code changes, adopted across my team so engineers could spend their time on engineering instead of keeping docs in sync.

AV Technology Student Manager

North Dakota State University • February 2022 – November 2025

- Led a team of up to 13 student technicians supporting 150+ classrooms and event spaces used by 12,000 students and 700+ faculty; promoted from technician to manager in nine months.
- Built a dashboard for tracking open tickets and room issues, first in Angular, then rebuilt it in React so the team could maintain it after I left.
- Built RoomMate, an iOS app that showed technicians when a classroom was free, because the university's scheduling tool didn't work on a phone.

SELECTED PROJECTS

setharvila.com/work

Field Research Submission Tool

Senior Design Capstone • NDSU Ag Data × Microsoft • Spring 2025

Asked to add a spreadsheet upload, I found the real problem was a form that took one entry per submission, and proposed fixing the form instead. I led the redesign, creating all the Figma designs, validating them with a researcher stakeholder, and writing most of the React front end. The new multi-entry form shipped to researchers at all eight Research Extension Centers.

Apex IFE

Personal Project • Summer 2026 – Present

Designed and built a SwiftUI iPad app that recreates an airline's seat-back entertainment system, simulating a full flight in real time with a moving map, a 3D chase view, movies and music. The flight keeps running through sleep and app restarts, so the screen stays believable for hours.

ENDORSEMENT

Matt Schumacher, Senior Software Engineer, Microsoft

Seth has unique skills when it comes to front-end development and he played a pivotal role in our project's large scale redesign of the user experience. He envisioned what the app could look like, built Figmas to express that vision, and helped the team execute on building those designs. Such skills are rare in software development and rarer still in a student. His impact to the success of the project was huge.

EDUCATION

Computer Science, B.S.

North Dakota State University • May 2025

Networking and Systems Administration, A.A.S.

Ridgewater College • May 2021

SELECTED SKILLS

Design: Figma, prototyping, design systems, typography, accessibility (WCAG)
Engineering: TypeScript, React, HTML/CSS, Swift/SwiftUI, Node.js, Git