

MICHAEL SNIDER

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SENIOR SOFTWARE ENGINEER

Software engineer with 8+ years of experience designing and developing full-stack web services, APIs, and user-centric websites focused on digital maps and navigation. Recognized for crafting high-quality code, delivering products that enhance user experiences, and mentoring team members with a thoughtful, collaborative approach. Passionate about continuous learning, innovation, and building solutions to assist people.

SKILLS

Languages: C# | TypeScript | Python | Java | CSS | HTML

Software: Git | VS Code | Azure | CI/CD | K8s | Copilot | Figma

Frameworks: ASP.NET Core | gRPC | Node.js | React | Vue.js

EXPERIENCE

Microsoft

August 2016 - Present

Senior Software Engineer | Directions, March 2022 – Present

Designed, developed, and led projects for the route services, APIs, and experiences for Bing Maps, Bing Search, Windows, Copilot, and B2B customers

- Provided product recommendations with cutting-edge demos for Route Enrichments including weather and grounding metadata
- Directed the migration and re-architecture of API business logic and tests to .NET Core on Linux and gRPC for Azure to secure the stack while improving code re-use, debuggability, and performance
- Delivered improvements to customer experience across the stack with features like smooth, encoded polylines, and a 67% reduction in customer bad requests
- Shipped new features and tools like delayed segments, commute ETA, and route debugger website

Software Engineer II | Beacon, August 2016 – March 2022

Designed and developed device location service and home/work APIs for Bing Maps, Bing app, Outlook, Teams, and Family Safety app

- Executed the data migration and re-architecture of Home/Work APIs when data store was deprecated
- Implemented and tested near real-time geofence inference for Family Safety app notifications
- Prototyped forward-thinking meeting location inference and batch inference support
- Supported team by creating location inference viewer website to experiment with signal upload
- Developed innovative hackathon projects to solve real-world problems with existing technologies and frameworks: Bring my pet home collar (2nd place Maps + Geospatial, 2019), Find my family (1st place Cortana Skills, 2017), Music ticket bot (2nd place Millennials, 2017)

Microsoft

2015

Software Engineer Intern | User Location

- Location history for Privacy and Speed Test for Bing

Open Roads Consulting

2013, 2014

Software Developer Intern | Traffic Management System

- Planned events feature, travel time reporting, localization support, and QA website

EDUCATION AND CERTIFICATIONS

Bachelor of Science (B.S.), Computer Science | University of Virginia | 3.941 GPA

2012 - 2016

- Capstone map website for Rivanna Trails Foundation
- Undergraduate thesis on societal values in online privacy

Google UX Design Certificate | Coursera

2023

- 7 sections, 3 projects with research, wireframes, mockups, prototypes, and usability testing