Scott R. Mathews
Software Engineer

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Education

Indiana University – Bloomington   *August 2014 – May 2018*

Master of Science in Computer Science (2018), Bachelor of Science in Computer Science (2014 - 2017)

Relevant Coursework: Advanced Functional Programming, Algorithm Design & Analysis, Artificial Intelligence, Compilers, Computer Vision, Computing Theory, Data Mining & Analysis, Data Structures & Algorithms, Machine Learning, Programming Languages, Software Engineering, Statistics

Relevant Experience

Microsoft, Seattle (Bellevue), WA   *May 2017 – **Current***

Software Engineer II, Search & Assistant
- Overhauled search page in Outlook Mobile for Android, replacing frontend architecture with a more modern MVVM stack
- Led Android client implementation of an end-to-end instrumentation contract, to support modern AB testing in search

Software Engineer, Cortana Experiences
- Used Bing's frontend monolith to implement web-based settings pages for Cortana experiences
- Maintained and added features to a Cortana voice skill which ran on a microservice

Software Engineer Intern, Enterprise Cortana
- Developed Cortana skill for assisting in coordinating meetings within Microsoft through Outlook calendar
- Contributed to development of new Enterprise AI platform on Cortana team

Indiana University, Bloomington, IN   *August 2015 – May 2018*

Assistant Instructor, Introduction to Artificial Intelligence, Games & Puzzles, Mathematical Foundations of Informatics
- Designed, built, administered, and graded homework assignments for Introduction to Artificial Intelligence
- Built a system for machine-reading names and grades on physical papers using computer vision to aid in grading duties

TCS, Cincinnati, OH   *June 2016 – August 2016*

Software Engineer Intern
- Developed concierge web application for the Tata Global Delivery Center front desk
- Employed a stack of React, Redux, MongoDB, and Express

Projects

Research Assistant, Bioinformatics
- Applied newly developed metrics to journal and news datasets to provide performance data for publication, published at https://doi.org/10.1007/s10618-019-00622-6
- Gathered impact data for bioinformatics journals, published at https://doi.org/10.1093/bioinformatics/btaa071
- Built system to generate insights in large text datasets by calculating correlation between sets of terms

Compiler, Racket
- Built a multi-pass compiler for a subset of the Racket language for graduate compiler course
- Source code available upon request (private to avoid plagiarism)

Eagle Scout Project, Campsite
- Led recreation improvement project in my hometown from design through approval in local council, to execution as the head of 40 volunteers

Miscellaneous

Familiar Languages: Kotlin, Java, C#, Python, JavaScript, Racket
Frameworks: Android, ASP.NET, React
Architectural Experience: MVVM, MVC, Microservices, Monoliths, Spaghetti
Other: Figma, Agile, Scrum, Test Driven Development, Version Control (Git)
Activities & Interests: Sailing, Hiking & Backpacking, Fitness, Skiing, Shooting, Travel, Writing (genre fiction), Reading, AI Progress, Former Cellist, Aspiring Pianist, Experiencing Subject of Life