

Rishi Nitin Agrawal

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EDUCATION

University of Maryland

Bachelor of Science in Computer Science, Minor in History

College Park, MD

December 2024

- GPA: 3.615
- Dean's List Spring 2024, Fall 2023
- Relevant coursework: Data Structures and Algorithms, Compilers, OOP I and II, Computer and Network Security

EXPERIENCE

Data Governance Intern

CareFirst BlueCross BlueShield

MAY 2024 – NOV 2024

Baltimore, MD

- Collaborated with a 20 person cross-functional team and used SQL and Master Data Management (MDM) systems to ensure data consistency, resulting in 30% error reduction
- Wrote SQL scripts that reduced manual processing efforts by 40%
- Optimized queries resulting in 25% improvement in response times

Course Developer and Lead Instructor: CMSC398V ReactJS

Department of Computer Science, University of Maryland College Park

JUN 2024 – DEC 2024

College Park, MD

- Independently proposed, developed, and secured approval for a new, officially-listed, for-credit course on ReactJS, collaborating with UMD CS faculty Dr Clyde Kruskal, committees, and administrative staff
- Taught 27 students front-end web development including Custom Hooks, Context API, server components and Memoization
- Independently developed, administered, and graded 4 class projects and 11 quizzes and taught 12 classes of 50 minutes each
- Achieved 86% "strongly agree" and 14% "neutral" ratings in the final evaluation, with students commending my course as valuable, interesting, and worth recommending to others
- Achieved 100% pass rate, 99% A+ achievement rate with 90% official enrollment rate

Teaching Assistant: CMSC216 Systems Programming in C

Department of Computer Science, University of Maryland College Park

JUN 2024 – DEC 2024

College Park, MD

- Addressed technical service requests from over 200 students
- Lectured 80 students on compiler optimizations, dynamic memory allocation, and multi-threaded programming

Researcher and Front End Developer

Agricultural and Resource Economics, University of Maryland College Park

MAY 2024 — AUG 2024

College Park, MD

- Utilized React, NextJS, and MaterialUI to build the user interface for website accessed by 90% of Maryland farmers
- Architected Amazon AWS Amplify for backend services, including authentication, and database management

PROJECTS

Instant Messaging App | *Firebase, Kotlin, JetPack Compose*

JUN 2024 – DEC 2024

- Built using Firebase, Kotlin, JetPack Compose, and the Model-View-Controller (MVC) model
- Implemented read receipts, voice typing, typing indicators, and advertising
- Engineered direct and group messages

MiniRacket Compiler | *Racket, x86 assembly*

JAN 2024 – MAY 2024

- Developed compiler in assembly language to practice and learn language design compiler theory
- Built recursive functions, lambda expressions, and function calls to compute over infinitely-sized data structures in finite-sized programs

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Kotlin, C++, OCaml, Python, C, SQL

Technologies: AWS, MongoDB, React, Express, Node.js, Flask, Vue JS