# Rishi Keshav Pradeep

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## EDUCATION

- **University of Maryland, College Park**
  *Bachelor of Science - Computer Science + Mathematics; GPA: 3.975*                    *08/2021 - 05/2024*
  - **FIRE Research Fellow:** Capital One Machine Learning Group
  - **Fellow at StartupShell**
  - **Dean's List:** Fall 2021, Spring 2022, Fall 2022
  - **Presidential Scholarship Recipient**
  
  **Courses:** *Algorithms, Intro to Computer Systems, Intro to Compilers, Advanced Data Structures, Intro to Data Science*

## EXPERIENCE

- **Capital One**                                                                        College Park, Maryland
  *Incoming Software Engineer Intern - Technology Incubator*                              *Jan 2023*

- **University of Maryland, College Park**                                               College Park, Maryland
  *Teaching Assistant: Intro to Computer Systems (CMSC 216)*                             *Aug 2022 - Present*
  - Taught introductory systems concepts such as C, pointers, dynamic memory, memory management, Assembly.
  - Engaged directly with students by hosting recitation sessions and leading office hours in a class of 800+ students.
  - Provided feedback and areas of improvement for students through grading coding projects, quizzes, and exams.

- **Curie AI**                                                                           Menlo Park, California
  *Software Engineer Intern*                                                             *Jun - Aug 2022*
  - Implemented backend microservices for integrating Electronic Health Record systems with Curie services.
  - Delivered data transformer and wrapper APIs, enabling seamless retrieval of patient records across Curie services.
  - Dockerized microservices and deployed with AWS Elastic Kubernetes Service.

- **Chaos Genius (YC '20)**                                                              Remote
  *Software Engineer Intern*                                                             *Jun - Aug 2021*
  - Contributed to algorithms for Root Cause Analysis and Anomaly Detection for time series data.
  - Engineered a KPI validation feature, and developed an anomaly severity scoring algorithm.
  - Authored a blog post, "A Brief History of Anomaly Detection".

- **Elevate the Future**                                                                 San Jose, California
  *Director of Project Falcon*                                                           *Jul 2019 - Feb 2021*
  - Founded and spearheaded Project Falcon to develop websites for 30+ local businesses amidst the pandemic.
  - Collaborated directly with business owners to design and curate websites for their needs.
  - Conducted technical workshops for youth and led team of 20+ in website development for businesses.

## PROJECTS

- **YouTube Mentions - (Fullstack Dev, Python, Svelte, NLP, Named Entity Recognition, Web Scraping)**
  - 2nd Place Media Track @ PickHacks 2021 (Missouri University of Science and Technology).
  - Uses Named Entity Recognition to generate cards with relevant context for a given YouTube video.
  - Source Code / Demo.

- **MicroCaml - (OCaml, Regex, Abstract Syntax Trees, Recursive Descent Parsing, Operational Semantics)**
  - Built a lexer, parser, and evaluator for the MicroCaml language.
  - A dynamically-typed version of OCaml with a subset of its features.

- **Ournix - (C, pointers, dynamic memory, memory management)**
  - A simulation of a filesystem, modeling severla common UNIX commands such as ls, pwd, cd, touch, etc.
  - Utilizes dynamic memory to scale linked data structures as filesystem's requirements grow.

- **Path Visualizer - (Svelte, JS, Graphs, Graph Search, Algorithms)**
  - A web app for visualizing pathfinding algorithms built in Svelte.
  - Algorithms: A* search, Dijkstra's; Grid Types: Recursive Division Maze, Random Grid.
  - Source Code / Website.

## SKILLS

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|---|---|
| **Languages** | Python, C, C++, Java, TypeScript, JavaScript, HTML, CSS, Ruby, OCaml, Rust, SQL, R, MIPS |
| **Frameworks** | Express.js, React.js, Vue.js, Node.js, Flask, Svelte |
| **Tools** | Kubernetes, Docker, GIT, Pandas, NoSQL, PostgreSQL, MySQL, SQLite, MongoDB |
| **Platforms** | Linux, Web, Firebase, AWS |
| **Soft Skills** | Leadership, Writing, Teaching, Problem Solving, Public Speaking |

## HONORS AND AWARDS

- 2nd Place Media Track @ PickHacks 2021