Rishi Keshav Pradeep

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EDUCATION

- **University of Maryland, College Park**
  Bachelor of Science - Computer Science, Minor in Business; GPA: 3.963   *08/2021 - 05/2024*
  - **FIRE Research Fellow:** Capital One Machine Learning Group
  - **Fellow at StartupShell**
  - **Dean's List:** Fall 2021, Spring 2022
  - **Presidential Scholarship Recipient**

  Courses: *Algorithms, Intro to Computer Systems, Intro to Compilers, Advanced Data Structures, Intro to Data Science*

EXPERIENCE

- **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 leading office hours and hosting recitation sessions 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 Elatic 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.

- **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.

- **Autoscriber - (Fullstack Dev, Python, Vue, MySQL, Speech Recognition, NLP)**
  - Progressive Web App for automatic online meeting notes using speech recognition and NLP.
  - Source Code.

SKILLS

Languages	Python, C, Java, TypeScript, JavaScript, HTML, CSS, Ruby, OCaml, Rust, SQL, R, MIPS
Frameworks	Express, React, Vue, NodeJS, Flask, Svelte
Tools	Kubernetes, Docker, GIT, 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