Rishi Keshav Pradeep

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EDUCATION

- **University of Maryland, College Park**
  Bachelor of Science - Computer Science, Minor in Business; GPA: 3.963 — *2021 - 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, Object-Oriented Programming, Organization of Programming Languages*

EXPERIENCE

- **University of Maryland, College Park** — College Park, Maryland
  Teaching Assistant: Intro to Computer Systems (CMSC 216) — *Aug 2022 - Present*
  - Teach introductory systems concepts such as C, pointers, dynamic memory, memory management, Assembly.
  - Engage directly with students by leading office hours, grading projects and exams in a class of 800+ students.

- **Curie AI** — Menlo Park, California
  Software Engineer Intern — *Jun - Aug 2022*
  - Implemented backend microservices for integrating EHR systems with Curie services and deployed with Kubernetes.
  - Delivered a wrapper API and a data transformer, enabling Curie to retrieve data on patients' medical records.

- **Chaos Genius (YC '20)** — Remote
  Software Engineer Intern — *Jun - Aug 2021*
  - Worked on 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.

- **dsapps** — Remote
  Software Engineer Intern — *Jun - Sept 2020*
  - Forecasted resource requirements for tasks based on historical patterns.
  - Experimented with k-means clustering for data analysis.

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.

- **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)**
  - PWA for automatic online meeting notes using speech recognition and NLP.
  - Source Code.

SKILLS

Languages	Python, C, Java, TypeScript, JavaScript, SQL, R, MIPS, HTML, CSS
Frameworks	Express, React, Vue, NodeJS, Django, Flask, Svelte
Tools	Kubernetes, Docker, GIT, NoSQL, PostgreSQL, MySQL, SQLite, MongoDB
Platforms	Linux, Web, Firebase, AWS
Soft Skills	Leadership, Writing, Teaching, Time Management, Public Speaking

HONORS AND AWARDS

- 2nd Place Media Track @ PickHacks 2021