

# Rishi Keshav Pradeep

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Portfolio: [keshprad.github.io](https://keshprad.github.io)

## EDUCATION

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- **University of Maryland, College Park** 08/2021 - 05/2025
    - *Bachelor of Science - Computer Science + Mathematics* GPA: 3.975/4.0
      - **FIRE Research Fellow:** Capital One Machine Learning Group
      - **Fellow at StartupShell**
      - **Dean's List:** All Semesters
      - **Presidential Scholarship Recipient**
    - *Courses: Intro to Compilers, Advanced Data Structures, Algorithms, Intro to Computer Systems, Intro to Data Science*

## EXPERIENCE

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- **ZipRecruiter** Santa Monica, California
    - *Software Engineer Intern* Starting May 2023
  - **Capital One** College Park, Maryland
    - *Software Engineer Intern - NLP Services* Jan 2023 - Present
      - Developed a news recommender system with multi-head self-attention based on Microsoft's NRMS.
      - Created Word2Vec embeddings to represent vocabulary from millions of relevant articles.
      - Engineered Named Entity Recognition feature and performed model hyperparameter tuning.
  - **University of Maryland, College Park** College Park, Maryland
    - *Teaching Assistant - Intro to Computer Systems* Aug - Dec 2022
      - Taught introductory systems concepts such as C, pointers, dynamic memory, IPC, Assembly.
      - Engaged directly with students by hosting recitation sessions and leading office hours for 800+ students.
      - Provided feedback for students through grading coding projects, quizzes, and exams.
  - **Curie AI** Santa Clara, California
    - *Software Engineer Intern - Backend Engineering* 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 - ML Algorithm Development* 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".

## PROJECTS

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- **Brisbane: DirectoryGPT - (LLMs, NLP, Word Vectorization, Question & Answer System, Prompt Engineering)**
    - In a 36hr hackathon, we built A QA system that creates a vectorized knowledge base of local files for GPT-3.5.
    - Answers questions on any data format seamlessly. Crafts fluent responses, citing exact sources and page numbers.
    - Understands code repositories, large PDFs about research, financial data, housing data, etc.
    - Source Code / Demo.
  - **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 live annotate YouTube videos with relevant context cards.
    - Source Code / Demo.
  - **best-comeback - (Python, Facial detection, Facial landmarks, Image Manipulation)**
    - Uses facial landmarks to automatically generate a "Deal With It" gif from an input image.
    - Source Code / Examples
  - **Racket Compiler - (Racket, x86, C, Compilers, Programming Languages)**
    - Built a Racket compiler with subset of features to target x86 on 64-bit architecture.
    - Parser, Interpreter, Compiler built with Racket. Executes with a C runtime.
    - Notable features include lambda (anonymous) functions, proper tail calls.

## SKILLS

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<b>Languages</b>	Python, C, x86, Java, TypeScript, JavaScript, HTML, CSS, Ruby, OCaml, Rust, SQL, R
<b>Frameworks</b>	Express.js, React.js, Vue.js, Node.js, Flask, Svelte
<b>Tools</b>	Kubernetes, Docker, GIT, Pandas, NoSQL, PostgreSQL, MySQL, SQLite, MongoDB
<b>Platforms</b>	Linux, Web, Firebase, AWS
<b>Soft Skills</b>	Problem Solving, Teaching, Writing, Leadership

## AWARDS, CERTIFICATIONS

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- Akuna Capital Options 101 Course
- Akuna Capital Options 201 Course
- 2nd Place Media Track @ PickHacks 2021