Ghirish Pranav Thaenraj

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Education

Brown University   Fall 2025
Master of Science in Computer Science, Artificial Intelligence Track   *Providence, RI*
University of California, Irvine   June 2025
Bachelor of Science in Computer Science, GPA: 3.8   *Irvine, CA*

Experience

Elytra Robotics   Jan 2025 – Jun 2025
Lead Software Engineer
- Built and maintained backend services for telemetry ingestion and drone health diagnostics using Python and Flask.
- Designed scalable data pipelines to transform raw sensor logs into structured metrics for monitoring and analytics.
- Deployed internal APIs and dashboard endpoints to support engineering and operations teams with real-time insights.
- **Keywords:** Backend Development · Data Pipelines · Flask · API Design · Systems Engineering

American Institute of Behavioral Research and Technology   Aug 2024 – Mar 2025
Software Engineer
- Developed Python and SQL-based backend pipelines to analyze 90M+ behavioral data records.
- Created RESTful APIs to serve model predictions for user intent classification and downstream tools.
- Automated analytics workflows into reusable modules and dashboards supporting long-term experimentation.
- **Keywords:** Python · SQL · API Development · Scalable Pipelines · Behavioral Modeling

American Institute of Behavioral Research and Technology   Jun 2024 – Aug 2024
Data Analyst Intern
- Engineered dashboards and internal tools to track online search behavior across experimental cohorts.
- Delivered findings through statistical analysis and collaborated on dashboard deployment with developers.
- **Keywords:** SQL · Dashboard Engineering · A/B Testing · Data Analysis · Metrics Design

Projects

CalMail AI Agent | *JavaScript, Node.js, React, Google Calendar API, Gmail API, Azure AI (GPT-4)*
- Developed an intelligent scheduling assistant that parses emails to detect meeting intent and integrates seamlessly with Gmail and Google Calendar.
- Implemented a Model Context Protocol (MCP)-based architecture to orchestrate structured tools for availability checking, event creation, and automated responses.
- Enhanced usability with real-time notifications, a Teams-style interface, and robust security practices for OAuth, rate limiting, and data encryption.

React eCommerce Platform | *React.js, JavaScript, HTML/CSS, Node.js, Firebase*
- Designed a responsive front-end eCommerce interface with shopping cart, product detail, and user login components using React.js.
- Implemented state management with React hooks and enabled product filtering, search, and sorting functionality.
- Integrated checkout and mock payment gateway using form validation and RESTful API patterns.

Cinescope: Full-Stack Movie Web App Deployment | *Java, React, MySQL, Docker, Kubernetes, AWS, JMeter*
- Built and deployed a full-stack movie browsing web app across a Kubernetes cluster.
- Implemented servlet logic for advanced search, movie/star browsing, authentication, shopping cart, and payment flows using Java and JDBC with connection pooling.
- Conducted performance testing using JMeter and optimized backend response time via connection reuse and caching.

Technical Skills

Languages: Python, C++, Java, JavaScript, SQL
Frameworks & Libraries: Flask, React.js, Pandas, NumPy, Matplotlib, Seaborn
Databases & Storage: PostgreSQL, AWS S3, AWS EC2
DevOps & Tools: Docker, Kubernetes, Jenkins, Git, CI/CD, Jupyter
Other: Linux, Data Pipelines, Metrics Design, Statistical Modeling, Unit Testing, REST APIs, Agile Methodology

Certifications

Databricks Certified Generative AI Engineer Associate, Databricks Certified Data Engineer Associate, Databricks Certified Data Engineer Professional, Databricks Certified Machine Learning Associate, Databricks Certified Machine Learning Professional