

# RAVI SURESH

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## PROFESSIONAL SUMMARY

AI Solutions Developer with expertise in building end-to-end prototypes and machine learning applications for complex real-world problems. Combines technical depth in Python, React, and modern ML frameworks with strategic product thinking to design data-driven solutions. Proven ability to independently architect and develop full-stack applications from concept to functional prototype, with specialized experience in healthcare systems and regulatory environments.

## PROFESSIONAL EXPERIENCE

### AI Training Consultant (Freelance) 04/2025 - Present *Outlier AI (Scale AI)*

- Evaluate quality of AI-generated data and ensure compliance with project standards for language model training
- Design and optimize AI training pipelines, building ground-truth datasets for LLM development projects
- Develop test cases and edge scenarios to improve AI model robustness in specialized applications

### Public Health Consultant 04/2023 - 08/2023 *Chicago Department of Public Health*

- Coordinated care between 50+ community clinics across Chicago to improve early identification and intervention for at-risk populations
- Co-authored and published a public health abstract demonstrating a statistically significant negative association between community food access and BMI/obesity prevalence
- Developed data-driven tools and communication strategies for technical and non-technical stakeholders

### Community Support Specialist 06/2021 - 07/2022 *Thresholds, Chicago*

- Oversaw case coordination for 30+ members with behavioral health conditions and increased appointment attendance by 15% through proactive outreach
- Maintained detailed, audit-ready documentation in SmartCare EHR to support compliance and care continuity
- Collaborated with multidisciplinary teams to develop individualized care plans and track outcome metrics

## INDEPENDENT AI PROTOTYPES

### ReferralGuard - Healthcare Analytics Platform 2025 FastAPI • React • XGBoost • AWS

- Developed healthcare referral analytics platform analyzing 60,751 Medicare markets using real CMS claims data to predict referral leakage patterns
- Built production-ready ML infrastructure with XGBoost ensemble models achieving 91.3% prediction accuracy across 8 medical specialties
- Engineered full-stack solution with React/TypeScript frontend and real-time analytics dashboard for enterprise partnership discussions

### CareMetrics Pro - Healthcare Analytics Platform 2025 React • TypeScript • Python • PostgreSQL

- Engineered executive dashboard analyzing HCAHPS patient experience data across 500+ hospitals with real-time benchmarking against national averages
- Designed minimalist UI/UX following Apple design principles to transform complex healthcare metrics into actionable executive insights
- Built full-stack application with interactive visualizations and automated PDF report generation for hospital quality improvement initiatives

### AuthorizationIQ 2025 React • FastAPI • Scikit-learn • PostgreSQL

- Built predictive tool to estimate prior authorization approval probability, addressing a major operational challenge in healthcare
- Designed ensemble machine learning models to analyze authorization patterns and provide data-driven insights
- Developed intuitive web interface to streamline authorization workflow and reduce administrative burden

## TECHNICAL SKILLS

### Programming & Data

Python, JavaScript, SQL, R  
Data analysis, Statistical modeling  
Excel, Pandas, NumPy

### AI & Machine Learning

Scikit-learn, TensorFlow  
Random Forest, Predictive modeling  
LLM Integration, Claude API

### Web Development

React, Next.js, TypeScript  
FastAPI, Node.js  
Tailwind CSS, HTML/CSS

### Tools & Deployment

PostgreSQL, Docker  
AWS, Vercel, Git  
Streamlit, Cursor AI

## CORE COMPETENCIES

- End-to-end prototype development
- Strategic product thinking
- Healthcare domain expertise
- AI/ML model design and implementation
- Full-stack application architecture
- Data-driven problem solving

## EDUCATION & TRAINING

### AI in Healthcare Specialization

Stanford University (Coursera) • 2024

Machine learning applications, predictive modeling, implementation strategies

### Medical Studies

Indiana University School of Medicine • 2022-2024

Biomedical sciences, clinical coursework

### BA Public Health

University of Virginia • 2017-2021

3.8 GPA (Honors), Pre-med track, Statistics, R programming

## ADDITIONAL INFORMATION

- Available for immediate opportunities
- Open to relocation
- Security clearance eligible