

# Sohith Kampalli

## AI & Full-Stack Product Engineer | Autonomous Agents • Cloud • Automation

Denton, TX, USA | Willing to Relocate

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### PROFESSIONAL SUMMARY

Full-Stack Engineer with strong experience in developing AI-enabled applications, automation tools, and cloud-based systems. Demonstrated ability to design and deploy end-to-end solutions, including browser automation agents, data analytics platforms, and scalable web applications. Combines technical expertise in modern development frameworks with enterprise systems experience and strong problem-solving skills. Committed to building innovative solutions that improve efficiency, productivity, and user experience.

### FEATURED PROJECT

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#### Mendis — Open-Source Autonomous Browser Agent      Site: [Link](#) | Web Store: [Link](#) | GitHub: [Link](#)

- Designed and developed **Mendis**, an open-source AI browser agent that performs complex tasks across any website using natural language without APIs or integrations
- Built a browser-native Chrome extension that analyzes live DOM structures to understand pages and execute actions in real time like a human user
- Enabled end-to-end workflow automation including form submission, flight booking, shopping automation, and multi-step data extraction across platforms
- Integrated 70+ AI models (GPT, Claude, Gemini, Grok, etc.) through a unified orchestration layer for flexible performance and vendor independence
- Engineered cross-site task orchestration capable of executing multi-platform workflows without custom integrations
- Conducted early validation with ~200 users through prompt-based testing to refine usability, accuracy, and task reliability
- Released as a public open-source project with documentation, product website, and extensible architecture for future enterprise adoption

#### AI Career Coach Platform (JobXpert)

GitHub: [Link](#)

- Developed a cloud-native full-stack AI platform that helps job seekers build resumes, generate cover letters, analyze career trends, and practice interviews from a unified dashboard
- Built scalable architecture using Next.js 15, Prisma, PostgreSQL (Neon), and background job processing with Inngest
- Integrated generative AI (Gemini API) to deliver personalized career insights, content generation, and role-specific interview simulations
- Implemented secure authentication and role-based access control using Clerk with Google OAuth and protected routes
- Designed subscription system with Stripe Billing, free trials, coupon support, and webhook-based access management
- Deployed production-ready application on cloud infrastructure (Render) with security hardening, CI/CD workflows, and OWASP ZAP-tested defenses
- Implemented background pipelines delivering periodic industry updates and insights.

#### Job Market Insights & Salary Prediction System

GitHub: [Link](#)

- Developed an end-to-end data analytics platform to analyze job market trends and predict salaries using machine learning and NLP techniques
- Built a salary prediction model (Random Forest) using features extracted from job titles, skills, and experience levels
- Applied NLP preprocessing (SpaCy, TF-IDF) to transform job descriptions into structured inputs for modeling
- Performed large-scale data cleaning, normalization, and outlier removal using Pandas and statistical methods
- Designed interactive dashboards (Altair, Tableau) to visualize skill demand, experience requirements, and regional trends
- Deployed the application using Flask on cloud infrastructure (Render) for real-time user access

## **PROFESSIONAL EXPERIENCE**

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### **IT Systems Engineer — Endpoint & Identity Management**

**Dallas, TX | July 2025 – Present**

### **22nd Century Technologies Inc. — Dallas County Government**

- Delivered onsite and remote support across multiple departments, resolving complex issues related to hardware, software, networking, and user access
- Managed identity and access operations using Microsoft Entra ID (Azure AD) and on-premises Active Directory, including account provisioning, group management, and authentication troubleshooting
- Configured and supported enterprise endpoints using Microsoft Intune and SCCM, including imaging, patching, compliance policies, and application deployment
- Utilized Absolute to monitor, secure, and track endpoint assets across distributed environments
- Supported secure connectivity solutions including Cisco Secure Client VPN and domain-joined infrastructure
- Assisted users working with enterprise platforms including SAP ERP, Snowflake, and iHeat (Ivanti Heat) service management system
- Coordinated device lifecycle management, asset tracking, and deployment readiness across county locations
- Analyzed incident trends and system logs to identify recurring issues and improve service reliability
- Applied security best practices including MFA enforcement, compliance controls, and vulnerability mitigation

### **Teaching Assistant — Data Visualization**

#### **University of North Texas**

**Denton, TX | Aug 2024 – March 2025**

- Assisted instruction for a data visualization course, supporting students in applying analytical and visualization techniques to real-world datasets
- Guided students in tools such as Python libraries, Tableau, and data analysis workflows
- Supported lab sessions, assignments, and project development
- Provided technical assistance and feedback to improve analytical accuracy and presentation quality
- Reinforced concepts including exploratory data analysis, charts, dashboards, and data storytelling

### **Software Engineer Intern**

#### **Techecy Consultancy and Solutions Pvt. Ltd.**

**Bangalore | Aug 2022 – Jun 2023**

- Contributed to full-stack development in an Agile environment, participating in sprint planning and daily stand-ups
- Optimized database performance using Entity Framework and ADO.NET to improve application responsiveness
- Implemented authentication and authorization features using OAuth 2.0 and JWT following security best practices
- Assisted in designing and integrating SQL and NoSQL databases (SQL Server, MySQL, MongoDB)
- Contributed to automated testing using NUnit to improve code reliability
- Supported CI/CD pipelines using Azure DevOps and Jenkins for efficient releases
- Used GitHub and Azure Repos for version control and collaborative development

## **CERTIFICATIONS**

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- AWS Certified Data Engineer — Associate.
- AWS Certified Developer — Associate
- Google Data Analytics Professional Certificate
- KCNA — Kubernetes and Cloud Native Associate

## **TECHNICAL SKILLS**

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- **Programming Languages:** Python, JavaScript, SQL, C#, Java, C++
- **Web & Full-Stack Development:** React, Next.js, Node.js, Flask, Spring Boot, HTML5, CSS3, REST APIs, Server Actions
- **AI & Machine Learning:** Generative AI, NLP, RAG, Machine Learning, Scikit-learn, TF-IDF, SpaCy, Hugging Face Transformers
- **AI Platforms & Model APIs:** Google Cloud AI (Gemini), Anthropic Claude API, OpenAI-compatible APIs, multi-model orchestration, Prompt Engineering
- **Cloud & DevOps:** AWS, Google Cloud Platform (GCP), Docker, Kubernetes, CI/CD, Azure DevOps, Jenkins, Render, Serverless Architectures
- **Databases & Backend:** PostgreSQL, MySQL, SQL Server, MongoDB, Prisma ORM, Supabase
- **Enterprise & Identity:** Microsoft Entra ID (Azure AD), Active Directory, Intune, SCCM, Absolute
- **Automation & Integration:** Power Automate, Background Jobs (Ingest), Webhooks, API Integration, n8n
- **Data & Visualization:** Pandas, NumPy, Data Cleaning, Tableau, Altair, Power BI, Dashboard Development
- **Security & Compliance:** Authentication & Authorization, OAuth 2.0, JWT, MFA, OWASP Best Practices, Helmet.js
- **Development Tools:** Git, GitHub, CI/CD Pipelines, Agile/Scrum, AI-assisted coding tools
- **Other Technologies:** Remotion (programmatic video generation), Browser Automation, Chrome Extension Development

## EDUCATION

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**Master of Science in Computer and Information Sciences.**

University of North Texas — Denton, TX

**Bachelor of Technology in Electronics and Communication Engineering**

VTU — Karnataka, India