Keshav Sheth

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EDUCATION

Georgia Institute of Technology (May 2027)   **Atlanta, GA**
Bachelor of Science in Computer Engineering; Concentrations: Distributed System and Software Design; Information Internetworks
GPA: 4.00/4.00
Relevant Courses: Data Structures & Algorithms; Programming for Hardware/Software Systems; Databases; Objects & Design; Object Oriented Programming; Digital System Design

EXPERIENCES

Verizon   **Basking Ridge, NJ**
Software Engineering Intern   *June 2025 – August 2025*
- Deployed Agentic AI framework (kagent) on AWS EKS (Kubernetes) to provide platform engineers with real-time cluster insights & analytics, improving troubleshooting speed by >60% for Verizon's API gateway
- Engineered a custom Model Context Protocol (MCP) in Python (FastAPI) to expose Verizon microservices to AI Agents via Server-Sent Events (SSE)
- Developed a Flask-based microservice leveraging Verizon's internal SMTP server, enabling AI Agents to send emails for early issue detection & incident resolution
- Integrated Agent-to-Agent (A2A) communication with a custom Python Slack Bolt app, allowing engineers to query and interact with Kubernetes clusters directly from Slack
- Dockerized & deployed these 3 production-ready applications to Kubernetes, allowing for direct interaction with AI Agent

Smart Stadium Researcher @ Georgia Tech   **Atlanta, GA**
Application Developer – Team Lead   *January 2025 – Present*
- Team lead for 12-person app development team; conduct code reviews, coordinate agile workflow, execute feature planning
- Working on full stack integration for SwiftUI iOS app that uses sensors & stadium analytics to improve engagement for 50,000+ fans during Georgia Tech football game day
- Oversee SwiftUI iOS development lifecycle, managing feature planning, frontend-backend contract
- Utilizing SpringBoot to develop REST APIs for user authentication, registration, profiles, and a new prediction game feature
- Built and tested a transactional message-delivery API with JWT-based authentication and relational integrity validation, resolving cross-table foreign-key issues and enhancing user communication reliability by 30%
- Implementing new Prediction Game feature to boost fan engagement: creating entity, repository, and controller layers to support RESTful access and refactoring backend databases to handle user inputs

PROJECTS & ORGANIZATIONS

AI Trip Planner Agent   *October 2025 - Present*
- Bulit an Agentic AI system on Cloudflare Workers using Node.js and TypeScript, enabling autonomous synchronization between reasoning, planning, and action tools
- Designed modular agent tools that generate travel itineraries via OpenAI API, email structured schedules to the travel group via SendGrid API, and construct Google Maps visualization links for activities and restaurants
- Utilized Cloudflare Durable Objects to maintain agent state and memory

JobFinder MarketPlace   *September 2025 – Present*
- Developed a full-stack Django job marketplace that supports access control for 4 distinct user roles, moderated listings, recruiter–applicant messaging, and personalized job recommendations
- Implemented a Python/Django ORM + Auth + Middleware stack with HTML/CSS templating and a SQLite backend to ensure efficient data flow and secure authentication.
- Unified hiring funnel; reduced spam via moderation by ~36%; boosted engagement with recommendations and fast apply

Programming Hardware/Software Systems (ECE 2035) Teaching Assistant   *August 2025 – Present*
- Led office hours to guide students through C programming, assembly debugging, Linux development tools, and performance optimization
- Supported students in design-oriented projects involving RISC-V, Mbed/uLCD hardware, and debugging in VS Code
- Worked with team of ~20 TAs to grade C & RISC-V assignments, tests, and projects

RoboNav (Autonomous Rover) @ Georgia Tech – Sensors & Teleoperation Full Stack   *August 2024 – May 2025*
- Built control dashboard with React.js and Material UI for rover teleoperation, increasing operational control by >35%
- Created 5+ advanced features for waypoint management system & system diagnostics
- Utilized props and ROS2 GPS topic subscriptions to implement real-time location updates on the frontend
- Integrated with team-wide codebase, updating repositories at regular intervals to ensure seamless collaboration

SKILLS

Programming: Java, Python, C, C++, TypeScript, JavaScript, SQL, RISC-V Assembly, HTML, CSS, Django
Frameworks & Tools: Kubernetes, Docker, REST APIs, Spring Boot, Flask, FastAPI, ROS2, React.js, Material UI