

Karteek Gole

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Education

University of Texas, Arlington

Aug 2017 - May 2019

Master of Science in Computer Science and Engineering

- **Coursework:** Software Engineering, Databases, Data Structures and Algorithms, Cloud Computing

University of Pune

Aug 2012 - May 2017

Bachelor of Engineering in Information Technology

- **Coursework:** Discrete Structures, Computer Networks, Computer Graphics, Application Development

Experience

Software Engineer

Plano, TX

Capital One

Oct 2019 – Present

- Global Integrated Data: Reduced marketing costs by 37% by modernizing production pipelines for AutoNavigator Marketing. Migrated legacy AWS Data Pipeline implementations to serverless architectures using AWS Lambda, CloudWatch events, and EMR clusters, enabling cost-effective scaling.
- AN Northstar: Redesigned AN's performance monitoring process by developing Northstar, a D3.js-powered internal reporting application serving as a centralized hub for the division's performance monitoring. Reduced reporting costs by 50% by eliminating reliance on external tools like Tableau and Power BI.
- Execute Marketing: Built D1/D2 Snowflake data tables to support AN's Business, Data Science and Tech teams with data accessibility. Created Business Current/Point-in-time views off of several base tables to cut querying costs by over 40%.
- Automation: Created the AutoNav Message Bot using Slack API to automate monitoring for 10+ dependency tables and real-time KPI tracking, improving operational efficiency and reducing manual oversight.
- Enterprise Data Exchange: Engineered secure data exchanges between AutoNavigator and 6 different third-party marketing affiliates by building and on-boarding 10+ data routes using an enterprise-grade EFG framework. Ensured compliant, cyber-secure transmission of sensitive data by adhering to strict enterprise security protocols.
- Cyber, Resources and Change Management: Optimized AWS resource provisioning by designing and testing CloudFormation templates, cutting downtime by 30% during critical operations. Regularly issued change orders to remediate vulnerabilities and resolve scan findings in AN's production data.

Graduate Research Assistant

Arlington, TX

Department of Computer Science and Engineering, UTA

Aug 2017 – May 2018

- Conducted research in the CSE department, gathering and analyzing data, use cases, and system requirements for building the MVP Android app called UTA Appointment Scheduler, serving over 40,000 students and faculty. (Details in Projects section)

Projects

UTA Appointment Scheduler

[Project Link](#) 

- Developed the Android-based UTA Appointment Scheduler to streamline campus advising by enabling students to book, manage, or cancel appointments with faculty while allowing professors to set and adjust their availability. Collaborated with a team of five research assistants to deliver a scalable solution.
- Built core features including push notifications, calendar integration, live status updates, and an in-app messenger for seamless communication. Designed and coded the front end in Android Java (Android Studio) and the back end using Java J2EE, hosted on Apache Tomcat Server. Integrated MySQL databases with JSON APIs for data retrieval and app functionalities.

VaccItRight

[Project Link](#) 

- Developed and deployed a secure website providing vaccination information for parents of infants and preteens, ensuring easy access to accurate and timely health data.
- Implemented 10+ key app features such as symptom comparison, comprehensive vaccine reports, and user account management with secure email-based authentication.
- Leveraged CodeIgniter MVC to structure views, models, and controllers, enhancing response times by 25%, code re-usability, scalability, and flexibility for future enhancements.

Technologies

Languages: Java, Python, HTML 5, CSS 3, JavaScript, SQL

Technologies: Spark, D3.js, Tableau, Angular, Flask, Node.js, React, Snowflake, MySQL, AWS - EC2, EMR, S3, CloudWatch

Software Engineering: ServiceNow, JIRA, Trello, Confluence, Github, IntelliJ, Visual Studio Code, PyCharm, WebStorm