

# Santhosh Karunakaran

940-595-2404 | [santhosh.karunakaran01@gmail.com](mailto:santhosh.karunakaran01@gmail.com) | Dallas, TX | [www.linkedin.com/in/santhoshkaran](http://www.linkedin.com/in/santhoshkaran)

**Professional Summary:** Intellectually curious professional currently earning my bachelor's degree in computer science at The University of Texas at Dallas (UTD) looking to obtain a position as a Software Engineer in a reputed company, where I can use my skills and knowledge to learn new things and grow as a developer.

## EDUCATION

**The University of Texas at Dallas**, Richardson, TX

August 2020 - May 2024

*Bachelor of Science, Computer Science (CGPA: 3.94)*

- Relevant Coursework: Advanced algorithm design and analysis, Data Structures and algorithms, Database systems, Discrete mathematics, UNIX, Software engineering, UI/UX Design

## WORK EXPERIENCE

**Deloitte**, Chicago, IL

June 2023- August 2023

Data Science Intern (Risk/Financial Advisory Team)

- Developed a Python program using Pandas library to connect to client SQL server database to perform automatic data loading into Deloitte environment. By automating this data-loading process, saved the team **15+** hours of labor weekly.
- Conducted data analysis of large client SQL datasets with nearly **2.5 million** data points and presented findings for fraud, embezzlement, and data management which helped maintain client compliance.
- Worked with senior consultants to program a script in Python using SciPy ML library that automated refinement of linear regression models for specific segments of a client dataset that saved **10+** hours of combined team labor.
- Built data visualization dashboards for clients using tools like PowerBI, Tableau, Kibana, and Qlik

**Tech Stack:** Python 3, SQL, Stats Models, Scikit Learn, SciPy, NumPy, Pandas, GitHub Workflow, PowerBI

**ObserveID**, Aliso Viejo, CA

June 2022 – August 2022

*Software Engineering Intern (Cybersecurity Team)*

- Developed dynamic webpages with ASP.NET, utilizing MVC patterns, Razor templates, and Entity Framework for efficient data handling.
- Demonstrated cloud integration expertise, architecting solutions for 30+ ObserveID clients on AWS and Azure, leveraging serverless computing (AWS Lambda and Azure Functions) for scalability.
- Employed real-time governance tools (ServiceNow GRC, StandardFusion) for security assessment, using PowerShell and Python for custom threat detection and incident response.
- Conducted thorough testing of 10+ third-party apps, using Postman for API testing and implementing BDD (SpecFlow, Cucumber) for comprehensive test suites. Established CI/CD pipelines with Jenkins.
- Collaborated on a user access management tool, automating tasks with Python and PowerShell. Integrated it with the identity and access management system for streamlined user management.
- Implemented React components with a performance focus, utilizing React Table, Highcharts, and React Tabs. Applied advanced techniques like virtualization and memoization.
- Proficiently worked with MongoDB and BigQuery databases, crafting complex queries while ensuring data security through input validation and output encoding.
- **Tech Stack:** ASP.NET, React, JavaScript, Highcharts MongoDB, BigQuery, AWS, Azure, Postman, Box

**Fidelity Investments**, Westlake, TX

February 2021 - September 2022

*Information Technology Intern (Investment Operations Team)*

- Launched electronic fund transferring processes as part of a personal investment operations which evaluated over **300+** customer portfolios.
- Worked in a fast-paced Fintech work environment that developed collaboration and communication skills.

**Tech Stack:** jQuery, Google Analytics, NetSuite, FDOT, FBSI, FocusPoint

## PROJECTS

**CrypTrack** – *Personal Project*

- Designed and developed a cryptocurrency price tracker using React Hook and Axios and React API

**Tech Stack:** JavaScript, ReactJS, Postman, Box, HTML, CSS, GitHub Actions

**RecipeFinder**- *Personal Project*

- Developed a recipe app for college students with limited cooking ingredients.
- Used Edamam API to get nutrition facts on recipes and developed in React.

**Tech Stack:** JavaScript, React, CSS, HTML, Edamam, Postman, GitHub Actions

## SKILLS

**Software Skills:** Python, C++, JavaScript, Java, HTML, CSS, C, R, SAS, React, NodeJS, REST APIs, Postman, Linux

**Databases:** MySQL, Microsoft SQL Server, PostgreSQL, Oracle, MongoDB, BigQuery

**AWS:** SDK, EC2, ECS, S3, Lambda, RDS, Redshift Serverless, EventBridge, CloudWatch

**Certifications:** AWS Cloud Practitioner (2021), HackerRank Java, Pursuing AWS Solutions Architect (Expected: Oct 2023)