

Thomas Kudey

I develop efficient, reliable applications and digital solutions for seamless user experiences.

[Thomaskudey.com](https://thomaskudey.com)
Contact@Thomaskudey.com
[LinkedIn.com/in/Thomas-Kudey/](https://www.linkedin.com/in/Thomas-Kudey/)
[Github.com/tkcpsc](https://github.com/tkcpsc)

Relevant Experience

Software Engineer, Task Based • **Athletics In Silico** May – Nov 2024

- Collected and processed over 1 TB of sensor data monthly, enhancing data reliability for a machine learning-based golf analytics system.
- Created Python scripts to streamline data parsing, reducing preparation time and improving processing efficiency.
- Automated data retrieval pipelines, minimizing manual work and optimizing data availability and integration for real-time video model performance.

Software Engineer Intern • **CoreLogic** Jun – Sep 2023

- Enhanced the Digital Gateway pipeline with cloud-based monitoring, resulting in greater system uptime and fewer downtime incidents.
- Built an internal service with Angular, streamlining integration planning for a scalable architecture supporting major client integrations.
- Optimized data flows and reduced API response times for high-profile clients like Wells Fargo and Chase, leading to improved client experience.
- Leveraged Google Cloud tools, including Apigee and Looker, to increase API stability and provide insightful, data-driven reporting.

Software Engineer Intern • **The Brain Institute** Mar 2022 – May 2023

- Developed VR firmware to reduce error rates, improve data accuracy, and optimize real-time calculations, delivering realistic simulations and reliable data for neuroscience research.

Data Analyst Intern • **Goldsmith Labs** Aug – Sep 2022

- Optimized code by migrating programming languages, improving performance.
- Analyzed NASA SMAP geospatial data tables with over 400 million rows, advancing environmental research.
- Collaborated with researchers and biologists to publish an in-depth paper on remote sensing and environmental dynamics.

Web Developer, Freelance • **Core Auto Spa LLC.** Feb – Feb 2021

- Built interactive web applications with modern technologies, integrating third-party services for expanded functionality and designing a user-friendly interface to improve accessibility and user experience.

Skills

Programming Languages

C, C++, Java, Python, HTML, CSS, TypeScript, JavaScript, MySQL, Mongo, R, XML

Tools & Platforms

Apigee, Elastic (ELK Stack), Jenkins, UpTrends, Git, GitHub, Docker, Postman, Excel, AWS EC2, Shiny

Recent Projects

LLM Investment Web-Scraper

AI stock trading strategist trained by recent news articles web-scraped from Yahoo Finance.

AWS Shiny ML Model

Real estate machine learning model hosted on AWS EC2 interfaced by Shiny.

Education

Chapman University

Bachelor of Science in Computer Science, Minor of Data Analytics. Expected Fall 2024. President of Kappa Sigma.

Interests

Cars, performance driving, golf, fabrication, virtual reality, programming, leadership, welding