AKSHAT SHARMA

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Software Engineer pursuing a B.S in Computer Science with 4+ years of experience in Programming. Hands-on, ready to contribute, seeking internship opportunities.

EDUCATION

Bachelor of Computer Science, University of California, Santa Cruz   Expected 2025
Relevant Coursework: CSE 144: Applied Machine Learning
CSE 101: Data Structures and Algorithms In C

TECHNICAL SKILLS

Technical Skills	Python, Java, C, Pandas, Git version control, API Development, Webpage Development
Software	AWS, VS Code, TinkerCAD, Google Colab, Jupyter Notebook, SQL, Autodesk, Adobe Photoshop
APIs	Vuforia, OpenCV, Tensorflow, Mathplotlib, NumPy, Google(Sheets, Maps, Docs)

EXPERIENCE

Founder   June 2023 - Present
TesPhase   *Irvine, CA*

- Launched TesPhase, a venture aimed at optimizing solar-powered charging for electric vehicles, blending eco-friendliness with technology

- Bridged Enphase and Tesla ecosystems for smarter energy management, attracting interest from environmentally conscious drivers.

Artifical Intelligence Intern   June 2021 - September 2021
Falkonry   *San Francisco, CA*

- Developed a Python script using Pandas to preprocess and manipulate large volumes of data, ensuring compatibility with Falkonry's requirements.

- Collaborated closely with the Falkonry team to understand their requirements and provided support in ongoing projects, demonstrating strong communication and problem-solving skills.

- Leveraged Falkonry's state-of-the-art predictive modeling platform to analyze customer-supplied data and extract significant statistics.

PROJECTS

TesPhase - Tesla-Enphase Solar Integration. [(tesphase.com)](#)

- Developed TesPhase, a Python 3.9-based system that optimizes solar energy utilization for electric vehicle charging.

- Established real-time communication and data exchange between Enphase Solar Gateway and Tesla vehicle using their respective REST APIs.

- Authenticated API requests through URL using OAuth 2.0, ensuring secure and reliable data exchange.

- Designed an alert system for critical events, enhancing user customization and control over energy utilization. work.

WebCrawler in C [(Read More)](#)

- Developed a robust and efficient web crawler utilizing C to extract valuable information from the web. Leveraging the power of multi-threading, the crawler efficiently navigates through websites, systematically fetching and parsing HTML content.

Large Data Parsing Script

- Developed a Python script capable of efficiently parsing large CSV files containing hardware details and generating customized C header files to meet client specifications.