

SEAN KUDRNA

Chicago, Illinois | me@seankudrna.com | (847)-393-5428 | www.seankudrna.com

EXPERIENCE

Software Engineer Intern

Inventus Power

May 2023 - Dec 2023, Woodridge, IL

- Developed a cross-platform desktop application (Windows/MacOS) using Electron designed for real-time reception and decoding of CAN messages. This tool seamlessly uploads signals to the cloud and enables dynamic graphing of the data in real-time.
- Took the lead in the development of a cross-platform mobile application (iOS/Android) using React Native, Typescript, and Flux for Inventus Power's Light Electric Vehicle (LEV) team. This tool provides accessible, real-time battery analytics and visualization, enhancing the management of battery fleets
- Utilized a large-scale Influx database for the extraction, parsing, and formatting of essential battery data

Software Engineer Intern

Control Solutions LLC

Dec 2020 - Jan 2021, Aurora, IL

- Developed automated testing protocols for the Phoenix motor controller
- Managed the testing and monitoring of current, resistance and other electrical variables through the motor controller system
- Worked with C++, Qt, Raspberry Pi and embedded systems
- Built a GUI hub to interface with power supply, battery charger, digital multimeter, DAC and a series of relays for product testing

Technical Expert

Apple

Oct 2021 - May 2023, Chicago, IL

- Progressed quickly through the Genius Bar in a fast paced environment from an entry level Specialist to a Technical Specialist, and then finally to a Technical Expert within the course of 10 months
- Was the top technician at Apple Lincoln Park, one of the busiest Genius Bar locations in the country within my first quarter
- Troubleshoot, diagnosed, and performed repairs on iOS devices, Apple TV, Apple Watch, Beats and their accompanying software
- Mentored Technical Specialists on technical and customer service issues
- Documented all pertinent user information and problems with accuracy in all store supported systems

PROJECTS

Stuudeo

Lead Backend Developer

Mar 2020 - Aug 2020, Naperville, IL

- Lead developer for backend website functionality and accompanying databases
- Integrated APIs to assist with image compression and data storage
- Worked heavily with PHP, SQL, and JavaScript to develop algorithms for the editing and accessing of database information
- Managed the implementation of agile practices to increase project productivity
- Available to view on GitHub and www.stuudeo.com

Tesla Arduino

Computer Design

Aug 2022 - Dec 2022, Chicago, IL

- Autonomous vehicle powered by multiple Arduino Uno devices
- Device equipped with the capability to manually control it via Bluetooth using an application on your smartphone
- Utilization of two custom designed advanced subsystems, the Automated Control Unit (ACU) and the Manual Override Control (MOC)
- Available to view on GitHub

EDUCATION

University of Illinois at Chicago

Bachelor of Science, Computer Science — College of Engineering

December 2023, Chicago IL

SKILLS AND CERTIFICATIONS

Language: C++, C, C#, Java, Python, JavaScript

Web development: PHP, HTML, CSS, Node.JS

App Development: React Native, Typescript, Electron

Database: SQL, SQLite, InfluxDB, Flux

Certifications: AWS Cloud Technical Essentials, Architecting Solutions on AWS

Other: Agile Methodologies, Jira Cloud, AWS, Android Studio, Bitbucket, Git,

RELEVANT LINKS

GitHub: <https://github.com/SeanKudrna>

LinkedIn: <https://www.linkedin.com/in/seankudrna/>