

# SAHAS CHITLANGE

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## SUMMARY

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Software Engineer fascinated by the intersections of technology and user experience design. 4.5+ years of experience building professional industry software like InfluxDB Cloud UI and EnergyVault's VaultOS energy management system.

Creator of widely known Open Source Pet Tracker called FindMyCat which was featured in numerous global technology publications. Distinguished technology author at Autodesk's Instructables with 1.3 million project views, 12+ featured publications and more than 10 international contest awards.

Awarded the "Extraordinary Ability" visa by the Government of United States in recognition for my work in the field.

## EXPERIENCE

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**Full Stack Engineer**, Energy Vault *Dec 2022 - Present*

- Focused on developing company's flagship Energy Management System software called VaultOS.
- Architected and implemented the User Interface (UI) for VaultOS which include building complex Data analysis tools and Asset Control tools using React framework in Typescript and Redux for state management.
- Wrote core inter-asset communication drivers in Java language that are critical for the orchestration of the on-site energy assets through VaultOS software.
- Built crucial SNMP communication system for scraping system data points from on-site devices. Provided on-site support for commissioning of assets including support for software upgrades, networking and asset configurations.

**Software Engineer - UI**, InfluxData *Jul 2021 - Dec 2022*

- Led engineering effort to implement InfluxData's UI component library. Worked closely with multiple designers to provide design and engineering input on two major releases.
- Devised and implemented a full-stack solution for a highly-requested feature that ensured colors of visualizations remained consistent across dashboard refreshes.
- Helped design, implement and ship seamless and compelling onboarding wizards that drastically simplified the process of writing data into InfluxDB, which caused a direct increase in InfluxDB Cloud signups by over 13%.
- Led numerous small projects and worked as part of a team on larger projects. Regularly fixed bugs, cleaned up technical debt, and added new features. Wrote and maintained a suite of unit tests and end-to-end tests. Handled on-call duty rotations. Reviewed code and facilitated knowledge-transfers on PR's.

**Software Engineer Intern - UI**, InfluxData *Jan 2021 - May 2021*

- Utilized React, Redux, and TypeScript to design, develop, and deliver UI components. Was offered a full-time position after internship concluded based on performance, in a time where extra head-count was becoming scarce.

**Web Developer**, Herberger Design School ASU ([herbergerinstitute.asu.edu](https://herbergerinstitute.asu.edu)) *Aug 2020 - Jan 2021*

- Built 30+ new web pages using HTML, CSS, JavaScript, & applied modern design patterns.

**Software Engineering Intern**, InfluxData *Jun 2020 - Aug 2020*

- Implemented a full recursive parser in Rust & GoLang and lowered the total development time for end-users by about 40% by redesigning the query language syntax into a more user-friendly one.
- Built an interactive SlackBot using CircleCI API, Slack APIs, and Go that helped full-time engineers at InfluxData track their git commit status in the Circle CI pipelines easily.

**Instructor**, Makerspace *Apr 2018 - May 2020*

- Taught one on one programming classes in C++ and Python to over 50 students, 1.5 - 2-hour session every 2 weeks.

**Author**, Autodesk Instructables ([bit.ly/sahas-instructables](https://bit.ly/sahas-instructables)) *Aug 2017 - Oct 2019*

- Developed projects that were collectively viewed over 1.3 Million times, and featured on the Instructables homepage.
- Won 10+ awards for my projects in multiple contests, including two Grand Prizes and four First Prizes.

## PROJECTS

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**FindMyCat - Open Source Pet Tracker ([www.findmycat.io](https://www.findmycat.io))**

- Built the entire suite of hardware, embedded software, iOS application and published the research behind the Open Source Pet Tracker, for wider public benefit.
- Featured in 9+ international technology related outlet. Product Hunt top 10 products of the day. Hackaday Prize 2023 Finalist.

**Self balancing One-Wheel Rider [Robotics] ([url: bit.ly/uniwheel-github](https://bit.ly/uniwheel-github))**

- Built a self-balancing one wheel (which can be ridden like a Segway scooter) from scratch.
- Implemented PID algorithm, Kalman Filter algorithm in C and C++ & a mobile app that connects to the wheel [wifi].
- Raised \$1500 in project funding by participating in open pitch events and other entrepreneurial grants.

## EDUCATION

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**Bachelor of Science**, Computer Science (Minor in Design Studies)  
Arizona State University

*Aug 2017 - May 2021*  
GPA: 3.71 / 4.0