



Jack Crane

 jackcrane.rocks

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Education

Saint Louis University St. Louis, Missouri
Summit Country Day School Cincinnati, Ohio

BA in Computer Science & Mechanical Engineering
High School Diploma

May 2026
May 2022

Skills

- UI Design/graphic design *Figma, Photoshop, Illustrator*
- Software development *JavaScript, PHP, Python, C, C++, Java*
- Data *Matlab, Python, MySQL, Postgres*
- Dev Ops *Git, Github*
- Cloud Computing *Kubernetes, DigitalOcean*
- Embedded Computing *Arduino, Raspberry Pi, atmega328p*
- CAD *Rhinoceros, OnShape, Solidworks, Fusion 360, Materialize 3-Matic, Design for Additive*
- Additive Manufacturing *Bambu Lab (FDM), Stratasys (FDM, Polyjet, DLP), Formlabs (SLS)*

Awards & Certifications

- 5 time Presidential Volunteer Service Award
- FIRST Dean's List Finalist
- Private Pilot's License
- Volunteer of the Year (Adventure Crew)
- Summit Country Day Excellence in Technology Award
- Boeing mentorship program participant

Experience

Saint Louis University Additive Manufacturing Technician & Teacher's Assistant (Mech. Engineering)

Aug 2022 - Present

SLU Center for Additive Manufacturing (SLUCAM) - Research Adjacent      

- Developed technical documentation and standard operating procedures for SLUCAM
- Served as primary liason between SLUCAM and public during tours & outreach
- Developed a custom project management platform for the SLUCAM & other SLU facilities
- Reviewed and interfaced with customers to optimize designs for Additive processes, then prioritized, scheduled, and processed print jobs on systems ranging from consumer to industrial FDM to DLP & SLA, Polyjet, SLS, and fusion processes.

Teacher's Assistant 

- Developed a Spatial Thinking, Technical Drawing, and Solidworks curriculum
- Directed a team of 6-12 other TAs, setting their schedules, assigning work, and ensuring students recieved excellent instruction
- Taught students the basics of understanding Engineering design by directing them through a series of projects to help them understand "design intent".

Differential Dev Shop Co-Op Software Developer

Oct 2022 - July 2024

Apollos          

- One of 3 frontend React Native developers, but branched into fullstack
- 31 merged Pull Requests over summer
- Built out a feature that earned Apollos 3 new clients, resulting in \$100k+ revenue

Myers Industries Freelance developer

Jul 2021 - Nov 2021

MTS Xpress     

- Rapid-prototyped an app to help pitch the idea to leadership
- Led to \$3.2 million in new revenue from Xpress orders in 2025
- Increased average line item count by 400% and average order value by 160%
- Led to a 60% voluntary adoption rate among sales reps
- Reduced lag time between a stock outage and a replacement order being placed

Adventure Crew Freelance developer & Volunteer Coordinator

Apr 2022 - Present

Volunteer Coordinator

- Recruited, trained, and managed 650+ volunteers over 4 years
- Served in the 6 member executive team, directing the event and ultimately raising a yearly average of \$135,000 for Adventure Crew
- Directed volunteers through 246 shifts
- Developed a volunteer registration & management system

Passion Projects

2d23d2 [2d23d2.jackcrane.rocks] [[demo](https://youtu.be/XgM995ynPd8)] <https://youtu.be/XgM995ynPd8>]

2025 - Present

- Three.js powered web app that extrudes a 2d shape into individual 3d objects for textile 3d printing
- Custom image processing to compute pixel height and color to print
- Procedural 3d object generation at runtime allows rapid file iteration for stylized polyjet textile printing

FIRST Robotics  [go.jackcrane.rocks/blog/robotics]

2012 - 2022

- Founded and captained high school a team that competed in the state championship 3 of 4 years
- Participated in the world championship.
- Earned the highest individual leadership award in the state
- Won awards for teamwork, sportsmanship, documentation, software, and hardware design
- Mentored/coached an inner city high school team and FTA/Emceed tournaments

This resume has been truncated for brevity and relevance. You can access my full general resume at resume.jackcrane.rocks