Jasey Chanders

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Technical Skills

Software Languages
Kotlin
Python
Java
C/C++
HTML/CSS/JS
PostgreSQL

Software Development
Git/Github
Jira
Unit Tests
JetBrains IDEs
Pandas/matplotlib
Android/Android Auto
ROS 2
React JS
Firebase

Hardware/Electrical
Raspberry Pi
Arduino
Basic circuitry
Soldering
Component Selection

Media Production
Microsoft Office
Google Suite
Adobe

Soft Skills
Rapid Learning Curve
Big Picture Thinking
Effective Listening
Adaptability
Positivity
Intermediate Spanish

Education

University of Colorado Boulder   - GPA: 3.96
- Professional Master's in Computer Science - Intelligent Systems Specilization   (EGD May 2025)
- Bachelor of Arts in Computer Science - Minor in Creative Technology and Design   (EGD May 2024)
- Boettcher Scholar, Presidents Leadership Class, Engineering Honors Program

Relevant Course Work (* indicates in progress)

- Data Structures
- Computer Systems
- Software Development
- Algorithms
- Operating Systems
- Data Science

- Intro to Robotics
- Advanced Robotics
- Object Oriented Design*
- Intro to Cyber Security
- Introduction to AI
- Machine Learning*

- Principles of Programming Languages
- Human Computer Interaction
- Complex Leadership Challenges
- Global Issues in Leadership
- Design Foundations
- Enviromental Ethics*

Experience

Software Lead - Multidisciplinary Capstone - University of Colorado Boulder   Fall 2023-present
- Partner with RockyTech to design and create a combined hardware and software system to aid in the prosthetic fitting process
- Responsible for all major software design decisions, delegating and tracking tasks, mentoring two students new to software, adapting software to changing hardware design and requirements

Nonprofit Coordinator - Blueprint Boulder (blueprintboulder.org)   2021-present
- Recruit and meet with nonprofits to select software projects for the Blueprint Boulder Team

Engineering Intern - Android Development - OnX Maps (onxmaps.com)   Summer 2023
- Full-time Android development engineer, Routing and Navigation Team - 3 months - Kotlin
- Collaborated daily with 3 engineers on high speed internal refactor of Android Auto app tied to product with 1M+ downloads and launching to companion app with 5M+ downloads
- Contributed to cross-functional development team. Merged 16 PRs (~2,200 lines, 30 tickets) into production/pre-production codebase, attended 2x/week scrum stand ups, performed code reviews, presented work to 50+ company engineers, wrote unit tests, iterated design patterns/architecture

Advanced Robotics Graduate Class - University of Colorado Boulder   Fall 2023
- ROS, motion planning, kinematics and controls, SLAM, Markov decision processes, reinforcement learning, convex optimization, function approximation, Kalman filters, Bayes filters and particle filters

Start Up Summer Program - Silicon Flatirons (siliconflatirons.org)   Summer 2023
- Collaborated with 3 person team to create, iterate and pitch a start up - placed 3rd in pitch contest
- Pitched an easier and more sustainable way to handle buying and reusing children's clothing

Carbon Capture Research (www.jaseychanders.com/carbon-capture-research)   Spring 2022
- Dove into the complexities relating to carbon capture/public perception of carbon capture
- Self-determined project - Wrote a research paper and created a research presentation poster

Project Co-Lead - Blueprint Boulder (blueprintboulder.org)   2021-2022
- Collaborated with non-profit Earth Force (15100 student reach) to scope, design and manage a team building a custom judging portal for youth environmental advocacy competitions - React JS

Software/Electrical Intern - Mindscribe (www.mindscribe.org) - UROP Project Grant   Summer 2021
- Transitioned prototype of an interactive physical platform helping children to tell stories from Arduino to Raspberry Pi - Component selection, soldering, software architecture design - Python

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Experience Continued

Edwardian LED Dress - Personal Project (www.jaseychanders.com/Led-dress)　　2021-2022
   - Designed and built dress with full 300 LED skirt, programmed 7 display patterns

Founder - Painted Wings Design (www.paintedwingsdesign.com)　　2019-present
   - Founder/owner; Created 21 watercolor greeting cards, actively sell on Etsy

Sophomore Class Coordinator - Presidents Leadership Class　　2021-2022
   - Organized 8 social events, kept 36 student cohort connected, assisted with incoming freshman

Recitation Leader and Peer Mentor - CU Engineering Honors Program　　2021-present
   - Lead freshman recitations, lead and organize 4+ community building activities

Web Designer - 501 Law　　May-June 2021
   - Built a website for a start-up law firm working in non-profit law

Software Lead - 1619 Up-A-Creek-Robotics　　2019-2020
   - Managed 8 student software team, designed robot control software, taught students

Stage Manager - APEX Homeschool Theater Program　　2019-2020
   - Coordinated props, set, costumes, T-shirts, programs

Robot Operator - 1619 Up-A-Creek-Robotics　　2019 & 2020
   - Controlled/operated the robot at competitions including the World Championship

Founder - Jasey's Little Bakery (www.jaseychanders.com/bakery)　　2011/2019
   - Celebration for Young Entrepreneurs Winner - Young American's Bank
   - Young Entrepreneur of the Year - Ernst and Young

Volunteer Work

Forest Service Pika Research - Steamboat Springs　　2017-present
   - Hike/backpack to 21 research sites, Collect temperature loggers, survey populations

FIRST Lego League/Robotics - Colorado　　2016-present
   - Referee 5 state championships and 5 qualifier competitions, mentored 2 FLL teams

Endangered Butterfly Surveys - San Juan Mountains, Colorado　　2016 & 2020
   - Backpacked into remote, high-altitude sites to survey populations

Bird Research/Banding - Monteverde, Costa Rica　　2018
   - Monitored mist nets, banded/weighed/measured 55 species of tropical birds

Natuwa Wildlife Sanctuary - Costa Rica　　2018
   - Took care of animals confiscated from the illegal pet trade

Awards

Individual Project Grant 2021 - Undergraduate Research Opportunity Program

Boettcher Scholar 2020 - Boettcher Foundation

Lifetime Achievement 2020 - 1619 Up-A-Creek-Robotics