



Jasey Chanders

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Boulder, CO

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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 - Intro to Robotics - Principles of Programming Languages

- Computer Systems - Advanced Robotics - Human Computer Interaction

- Software Development - Object Oriented Design* - Complex Leadership Challenges

- Algorithms - Intro to Cyber Security - Global Issues in Leadership

- Operating Systems - Introduction to AI - Design Foundations

- Data Science - Machine Learning* - Enviromental Ethics*

Experience

Software Lead - Multidisciplinary Capstone - University of Colorado Boulder Fall 2023-present

- Partner with RockyTech and Quorm Prosthetics to design and create a sensor-based data collection and 3D visualization system to aid in the prosthetic fitting process - Python, PyVista, C

- 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