

Sky Johnson

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Education

University of Colorado Boulder, **Bachelor of Science: Computer Science**

Expected May 2020

- Major GPA: 3.5, Cumulative GPA: 3.4, Dean's List.
- Relevant Coursework: Capstone: Entrepreneurship, Machine Learning, Biological Networks, Numerical Computation, Database Systems and Design, Chaos Dynamics, Principles of Programming Languages, Algorithms, Comp. Systems.
- Minor in Applied Mathematics (Focus: Theoretical Statistics).
- Relevant Coursework: Markov Chains & Monte Carlo Sims, Statistics, Appl. Probability, Linear Algebra, Diff Eqs, Calc 3.

University of Colorado Boulder, **Bachelor of Science: Creative Technology & Design**

May 2020

- Major GPA: 3.7, Cumulative GPA: 3.4, Dean's List.
- Relevant Coursework: Physical Computation, Game Development, Web Design, 3D Modeling, Typography, Photography.

Key Projects

Personal Project, A Full Stack Portfolio Website

October 2020

- Designed, Developed, and Deployed a full stack application with live data pulled from a cloud hosted API.
- Created a front end using React JS, Typescript, and Semantic UI with Sass on Netlify. A dockerized back end hosted on a Digital Ocean VPS with NodeJS, GraphQL, PostgreSQL, and Apollo with user Authentication for updating information.

Full Stack Web Developer, Libnosis: Senior Entrepreneurial Capstone

June 2019 - May 2020

- Designed a functional PaaS for data scientists and academics to rapidly share, collaborate, and release ML models.
- Competed in the 2020 New Venture Start up Challenge hosted by CU for rising startups.
- Built a full stack web app to interact with a GCP cloud from dockerized ML containers, allowed users to view, manage, and update live models running in production.

Class Project, Human Contact Networks with GANs

May 2020

- Implemented a random graph model from a Generative Adversarial Network trained on Human Contact Network data for simulations with compartmental models to study infectious spread over a population with Python and NetworkX.
- Utilized Tensorflow and Keras to design and train the GANs, then NetworkX to compare vs real world network data.

Class Project, Measuring Seattle Library Trends

July 2019

- Analyzed sources from the Seattle public library usage, city-wide traffic, and hourly weather data over 10 years to explore any correlations between weather, traffic, and library usage with data science techniques and SciKit.

Systems Engineer and Project Manager, Buffs Racing, Formula SAE CB-1 Race Car

January 2018 - May 2020

- Built and managed a team of 40 engineers in building a functional formula style race car.
- Ensured smooth adoption of agile methodology in sub-teams to improve team productivity.
- Transitioned team to leverage cloud provided PDM services on CAD related files to reduce design conflicts.

Work Experience

Web Development, Freelance Full stack

Boulder Colorado, May 2020 - Present

- As a freelance web developer, I design full stack websites for industry clients with react js and other modern web technologies. I work in everything from design and development to deployment for clients.

Research Assistant, IronLab, University of Colorado

Boulder Colorado, January 2019 - May 2020

- Developed software packages using Unity and ROS to vastly decrease time it takes for a researcher to start and implement new Human-Computer/Robotic Interaction experiment in Mixed Reality settings.
- Adapted and streamlined previous research papers to new hardware, such as the HoloLens, Oculus RiftS, and Quest.

IT Student Assistant, University of Colorado

Boulder Colorado, January 2018 - December 2019

- Ensured a high level of uptime and rapid service response on university's distance learning and classroom capture.
- Maintained, upgraded, and documented classroom capture servers, equipment and other IT assets of the University with a large team of professionals. As well as created video tutorials and guides on using university assets.

Skills Summary

- Familiar Coding Languages: Typescript (Javascript), Java, Python, C#, C/C++, R, Arduino, Processing, OpenSCAD.
- Technologies and Libraries: React JS, PostgreSQL, NodeJS, Express, JWT Tokens, AWS, Redis, Docker, Kubernetes, Heroku, Netlify, Git, GitHub, NetworkX, SciKit, Matplotlib, TensorFlow, OpenCV, D3js, Jest, ROS.
- Software: Adobe Creative Cloud, Unity, SolidWorks, Rhino6, Anaconda, JupyterLabs, Gitlab (CD/CI).