

Tyler Heise

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EDUCATION

- **University of Alberta**

Bachelor of Science with a Specialization in Computing Science

Edmonton, Alberta

September 2016 – April 2019

EXPERIENCE

- **LoKnow**

Software Developer

Vancouver, British Columbia

October 2019 – November 2021

- Built web services using Django and Django REST framework
- Used Vue JS to turn complex processes into dynamic and user friendly experiences
- Wrote extensive integrations with external APIs
- Engineered multiple data pipelines using Redis and REST APIs to communicate between services
- Automated repetitive processes to improve efficiency across the company
- Identified and addressed technical debt that was slowing team velocity
- Deployed rolling software releases and database migrations to a production AWS environment
- Collaborated in code review as both a reviewer and a reviewee

- **University of Alberta**

Research Programmer

Edmonton, Alberta

May 2018 – October 2019

- Built two Django prototypes: a literacy tutor, and a medical chatbot for families affected by neurodevelopmental disabilities
- Implemented a scaling difficulty algorithm for the literacy tutor
- Built a dynamic React interface for the user to interact with the chatbot
- Created cross platform development environments using Docker
- Made long-term design and architecture decisions
- Worked with non-technical stakeholders to elicit requirements

PROJECTS

- **Online Interview System**

- Used Django to build an online interview system for the Occupational Therapy department at the University of Alberta
- Enabled the department to better assess an applicant's soft skills without costly in-person interviews
- Used natural language processing to automatically select questions relevant to the applicant
- Took leadership role on team of 6: planned sprints, lead scrums, and delivered results

- **Drawing Game**

- Actively developing a Pictionary inspired drawing game with a Node JS backend and React frontend

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, SQL

- **Tools:** Django, React, Vue JS, Git, Linux, Docker, AWS, Redis

- **Technical Interests:** REST APIs, Web Development, Data Pipelines, Scalability, Automation