

ETHAN KEYS

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TECHNICAL SKILLS

Technical Skills: Web Development, Android Development, Relational Databases, UML, Git Version Control, Unit Testing, Scrum and Agile Development, CI/CD, AWS S3 Buckets

Languages: Python, C, Java, Javascript, HTML, CSS, SQL

Frameworks/Libraries: Django, Bootstrap 5, React

Development Tools: Git, Github, Visual Studio Code, Android Studio

EXPERIENCE

April 2024 - Current **Lead Instructor and Instructional Team Supervisor, Ultimate Coders**

- Instruct and provide lessons and homework for kids ages 5-18 in areas of algorithmics, robotics, web development, data structures, and software development.
- Teach languages including Python, Java, Javascript, C, C++, HTML, CSS, Scratch
- Supervise, train, and lead a team of fellow instructors to provide curated extra credit tasks to children and deal with administrative tasks discussing programming concepts and lesson plans with parents

Dec 2021 – Aug 2023 **Highschool Math and Science Tutor, Oxford Learning**

- Instruct children and help with mathematics and general science lessons provided by the Institution or through their school homework.
- Provide problem-solving insights to attack problems in the areas of Calculus, Pre-calculus, Physics, and Chemistry.
- Assist with science and mathematical writing notation, and provide literary support to students.

EDUCATION

- University of Alberta, BSc Specialization in Computing Science (2021 – 2026) - 3.8/4.0 GPA

PROJECTS:

Current **Website Development** | University of Alberta

December 2024– Current **Seams Strange Embroidery (Website Development)** | Personal

- Website Link: <https://www.seamsstrange.com/>
- Github Repo: <https://github.com/ethanman102/SeamsStrange>
- Allow for business owners to utilize an admin panel to create, edit, and remove items with descriptions, images, and tags to inform their customers about their newest inventory.
- Implement a RESTful website using a Django backend, React frontend which are hosted on Heroku for a new business which specializes in selling custom embroidery.
- Implement design patterns such as the Singleton Pattern, Observer Pattern in Javascript whilst utilizing higher order components in react to maintain a DRY web-app
- Work with Amazon Cloud S3 Buckets to serve and support images hosted on the website.

September 2024 – December 2025 Website Development | University of Alberta

- Working with a team of six Undergraduate Computing Science students to build a distributed social networking application
- Construct backend API endpoints using the Django web framework, and frontend communication using its Template based system with customized Widgets from the Bootstrap 5 Library
- Practiced Scrum and Agile development techniques and version control using Git and Github. Learned HTTP web protocols, Javascript, AJAX, enhanced knowledge of HTML and CSS Layouts and designs.

Sept 2023 – Dec 2023 Android Development | University of Alberta

- Worked with a team of six students to construct a personal inventory application for android
- Constructed UML class diagrams, User Interface storyboards on Figma
- Implemented software design patterns
- Learned techniques for working with Firebase and Firestore, Java, Git and Github version control.

AWARDS

Indigenous Careers Award | 2024

- Awarded to Indigenous Students pursuing a degree in an in-demand sector
- Awarded to those with extemporary academic achievement

Jason Lang Scholarship | 2022, 2023

- Awarded to students with great academic achievement