Nico Stepan

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Education

McMaster University — Hamilton, ON
B.A.Sc. (Honours), Computer Science — Sep 2018 – Apr 2020

B.Sc. (Honours), Physics — Sep 2014 – Apr 2018

Skills

Languages Python *(3 years)*, C/C++ *(2 years)*, HTML+CSS, JavaScript, LaTeX *(all ∼1 year)*
Software MATLAB, GCP, Bootstrap, Firebase, OpenGL/GLUT

Work Experience

Spruzzo Design — Toronto, ON
Full-Stack Developer — Jul 2018 – Dec 2018

- Developed native mobile applications by programming in the JavaScript React Native framework with Python and Firebase for the back-end
- Provided consulting for other teams with product ideas by collaborating with UX/UI designers and a product manager

Apple — Apple Mapleview
Genius Bar Technician — Jul 2017 – Oct 2018

- Diagnosed technical needs and efficiently communicated to deliver a seamless customer experience
- Adapted during rotation of various technical specialties and skill sets while thriving on change as Apple products evolve
- Provided training, mentorship, and feedback for newly hired Apple Technicians
- Helped customers develop life-long relationships with Apple by providing product knowledge and enthusiasm during appointments

Projects

Jabbic
Jabbic is a React Native app that uses machine learning to provide a user with targeted advertising based on their physical facial features and accessories. Using a dataset with over 200,000 images, Jabbic utilizes a custom API built with Google's AutoML to display an advertisement pertaining to the user.

What Am I?
A mobile app that allows users to reverse image search by taking or uploading a picture. Built with React Native, this app constructs a Google Cloud Vision API request which then returns a best guess, and three other results generated by the web detection feature for highest accuracy.

Gasham
This project displays all sorted gas station prices based on user desired address, city, area, and preferred travel distance to gas station. Built with Python, the Geocoder library is used to transform addresses into geographic coordinates which allows distance to be calculated. The Urllib and re libraries are then used to web-scrape real-time gas station data and append to a JSON file.

Terrain Generator
OpenGL/GLUT project that generates a random terrain using either the circles algorithm or the fault algorithm. Programmed in C++, the user can select a variety of terrain sizes, colours, lighting settings, wireframe modes, and a hypsometric tint option to indicate elevation.

Extracurriculars

Hackathons
HackPrinceton, UofTHacks, QHacks, DeltaHacks

McMaster Students Off Campus Society - Representative
Led numerous activities to provide first year students with an enjoyable and supportive transition into their university experience at McMaster.

McMaster Undergraduate Physics Society - Fourth Year Representative
Contributed to executive team to coordinate across various roles while promoting events and activities.