Evan James Martin

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EDUCATION	B.Sc. Computer Science and Statistics, University of British Columbia, Vancouver campus. Expected graduation May 2019, 3.30 GPA. View my academic background here ♂.	
Skills	Highly skilled and proficient in: Python, JavaScript, SQL, MATLAB, R Statistical Software Proficient in: C, C++, Java Frameworks/libraries/tools: Node.js, Express, React, Knex.js, Heroku, urllib, NumPy, RegEx, Git, Adobe Illustrator, OpenCV, Python Imaging Library (PIL)	
Experience	 Back-end Engineer Intern at Axiom Zen (Cryp 2018) Synopsis: Developed the back-end for the cluded CK's first CRUD API. This feature groupings of their kitties into sharable col points to supply lists of kitties to different plogue ♂ page. Challenges: The responsibilities of interns opment moved fast. From this, I learned t members is key. Understanding how the C blockchain network was also difficult at would schedule weekly meetings with senie. Outcomes: Learned how to manage mysel responsibility. Developed an understanding tion. Gained a deep understanding of how and the costs and benefits of building an approximation. 	e Kitty Collections C feature, which in- allows users to create, update and delete lections. Developed several REST end- pages of the website, including the Cata- at Axiom Zen was quite high and devel- that proactive communication with team CK back-end worked with the Ethereum first. To improve my understanding, I or engineers to review the CK back-end. If in a fast-paced environment with high g of the importance of team communica- the Ethereum blockchain network works pplication on top of it.
PROJECTS	Projects available at github.com/evmarts	
	stack Web Development), see web app 🗗	(LSDC) Occupation Scalen 1001 (1 un-
	 Synopsis: Built a website that allows use their personal aptitudes and characteristics database and an API written with Express is written with React. Challenges: This was the first time I had b and back-end from scratch so understandin a challenge. I ended up doing a lot of resear constructed and was able to work my way modern technologies. Outcomes: Website is used by the client m to extend the service to multiple clients. L development and UX design. Gained a ma web-applications are built and how all the extended the service of the service	ers to search for occupations based on a. The back-end includes a PostgreSQL , both hosted on Heroku . The front-end uilt a distributed application with a front g what was needed at each next step was rch on how modern web-applications are to a final product that implements those nultiple times a week. Currently seeking earned important elements of front-end acro-level understanding of how modern elements work together.
	Instagram Account Growth and Marketing (Interpreted opment)	ernet Marketing + Full-stack Web Devel-
	• Synopsis. Grew six fincte instagram accound image generating techniques. Became a their products via the account. Developed a contests by tracking user engagement and a based on those engagements (built with Exp	affiliated with businesses and advertised web app ♂ to facilitate user engagement awarding points on a leaderboard system press, React ; hosted on Heroku , Surge).

- Challenges: Spent a lot of time on finding content to post to my accounts, solved by automating content generation. Spent a lot of time searching for users to attract to my accounts, solved by scraping the usernames of users who interact with other popular accounts in my niche. Struggled with user engagement drop, solved by creating user engagement contests.
- Outcomes: Grew a **200k+** network of followers spread amongst multiple niches. Further strengthened full-stack web development skills. Learned basics of Internet Marketing.

Internet Meme Generator (Python programming), blog post 🖒

- Synopsis: Applied **OpenCV** and **Tesseract OCR** with **PIL** to break an Internet meme into cropped image and string of text. The program is then able to compose a recycled version of the internet meme in a cleaner format than the original.
- Challenges: Needed to be able to dynamically crop an image to remove white borders, solved by using OpenCV to recognize the boundaries of the largest rectangular component in an image. Needed to be able to recognize images of text as strings of text, solved by integrating Tesseract's optical character recognition engine.
- Outcomes: This project gives one the ability to take a collection of memes and recycle them into a cleaner format. It may also allow one to analyze the textual and pictorial content of a set of memes, which has implications in exploratory data analysis.

Other Notable Projects

- Random Forests to Classify Images of Digits blog post 12
- Computer Vision to Generate Missing Sections of an Image blog post
- K-means Clustering to Group Countries into Political Blocks blog post 🖒
- Python Imaging Library to Automate Content Creation blog post ♂

MORE More information about what I do can be found at evmarts.github.io/blog/