

# MINJAE KIM

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## PROFESSIONAL EXPERIENCE

### Valtech - Software Developer; Toronto, ON

July 2019 - Present

- Worked as a tech lead on a fresh implementation of a corporate site project using Episerver CMS, ASP.NET, Episerver Find (search platform), and Sass
- Developed, maintained, and refined sites based on Sitecore CMS using tools like ASP.NET and Coveo search, in accordance with the Helix architecture
- Identified clients' websites that were not meeting GDPR requirements and modified them, resulting in the possible prevention of millions of dollars in fines
- Led the implementation of Sitecore Digital Asset Management (DAM) and Product Information Management (PIM) on Content Hub, which enabled product search, asset search, and many-to-many product/asset relationships (food manufacturer)
- Presented on development and personalization techniques for DAM at Sitecore SUGCON in front of 250+ audience
- Trained other developers on search optimization, machine learning setup for Coveo search, and indexing strategies with Sitecore
- Provided training and guidance on Sitecore content management techniques and best practices to clients

### APIQU - Software Developer; Toronto, ON

May 2018 - July 2019

- Developed, maintained, and refined sites based on Sitecore using tools like ASP.NET (MVC & Web Forms), TDS, and Coveo Search
- Moved a site's search platform from Google Search Appliance (shutdown in 2018) to Solr on a tight deadline, which prevented search malfunction of a public college
- Developed ASP.NET Web APIs (REST APIs) returning the status of a crypto-currency mining facility (failure rate, projected revenue, temperature, etc.)
- Developed a C# Windows Forms Application which programmatically creates an invoice based on a complex excel sheet
- Obtained the Sitecore Certified Platform Associate Developer certification and Coveo for Sitecore Hive certification
- Created an Ethereum smart contract with tokens based on real estate (asset-backed token)

### CoinMiner, Co-Founder; Toronto, ON - coinminer.minjae.io

July 2017 - Jan 2019

- Co-founded a cryptocurrency mining consultancy company, specializing in hardware development and software mining optimization
- Built and managed mining rigs and a data centre, including a large \$6 Million warehouse construction in Quebec housing more than 1,000 mining rigs
- Conducted interviews, hired, and managed employees to build and maintain the mining operation
- Led the team on-site as the head of engineering
- Managed finances and customers over a wide spectrum of projects

### York University - Software Engineering Intern; Toronto, ON - camera.minjae.io

May 2017 - Sept 2017

- Developed an Android app with DSLR-like features using the Android Camera2 API (manual focus, ISO, shutter speed, intervalometer, pre-set white balance, colour correction, etc.)
- Implemented manual white balancing and demosaicing using matrix manipulation (OpenCV)
- Presented at the Lassonde Research Conference hosted by York University - Received the Lassonde Undergraduate Research Award

## PROJECTS

### Stock Market Trend Analyser - Reddit Crawler and Keyword Analyser - crawler.minjae.io

Feb 2021

- Designed, implemented, and deployed (Heroku) a keyword analyser service that periodically crawls all the recent posts' comments on Reddit, finds all the popular keywords, and stores keyword information in MongoDB Atlas database
- Keyword filters were added to remove common words ("a", "the", "have", etc.), special characters, and emojis which improved the keyword ranking metric and reduced the size of the database
- Created a Python script to plot any keyword data on a frequency-time graph given desired start time, end time, and time interval

### Animal Behavioral Study - animaltracker.minjae.io

Jan 2016 - May 2018

- Engineered an embedded system with a micro-controller (ESP-8266), and various sensors (humidity, accelerometer, temperature, photoelectric, motion etc.)
- Retrieved live information from the sensors and published them to the cloud using the MQTT and FCM HTTP protocol
- Tracked an animal's movement, activity, temperature, and ambient humidity (tested on a Dog)
- Founding member and team leader (Team admitted to York's BioSA Laboratory)

### York University - Lassonde Motorsports

June 2016 - Sept 2016

- Studied tire, suspension, frame, and overall vehicle dynamics of a Formula SAE car
- Selected the optimal tire and suspension geometry using the manufacturer tire data, "Pacejka Magic Formula", and MATLAB simulations

## EDUCATION

### York University, Lassonde School of Engineering – Bachelor of Engineering, Computer Engineering - Toronto, ON

2014 - 2018

- Relevant Courses: Advanced Object-Oriented Programming, Software Tools, Database Management Systems, Data Structures, Algorithms, Digital Logic Design, Communication Networks
- Schulich School of Business – Minor, Entrepreneurial Studies

### Technion - International Entrepreneurial Immersion Program - Haifa, Israel

May 2016 - July 2016

- Admitted to the Technion international experience program
- Created a mock startup and presented the MVP and the business plan to industry leaders at Google's Tel Aviv campus
- Visited various startups in Israel to learn the process of creating a successful tech startup

## SKILLS

ASP.NET, C#, HTML, CSS, JavaScript, Java, Python, Android, SQL, MongoDB, Version Control, Arduino, Solidity (ERC-20/BEP-20), MATLAB, Algorithms, Data Structure, System Design, Episerver (Optimizely), Sitecore XP Content Management System (CMS), Sitecore Content Hub (DAM and PIM)