

BRIAN LEE

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EXPERIENCE

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|--|---------------------------------------|-------------|
| Innovation Developer Intern | Zero Gravity Labs @ LoyaltyOne | Fall 2017 |
| <ul style="list-style-type: none">• Used machine learning techniques to identify market opportunities in partner stores (<i>Python, C++</i>)• Generated collector and product vectors using AIR MILES transactional data (<i>Apache Spark, Scala</i>) | | |
| Product Manager Intern http://penvention.io/ | Contractor | Spring 2017 |
| <ul style="list-style-type: none">• Managed team to build a startup competition tool with 5,000+ users (<i>Node, PostgreSQL, Bootstrap</i>) | | |
| Software Developer Intern | TekSavvy Solutions | Summer 2016 |
| <ul style="list-style-type: none">• Migrated CRM platforms in two weeks (eight-week timeline), reduced company costs by \$4,000+• Created automated promotion generation tool for internal marketing team (<i>Angular, C#, SQL</i>) | | |
| Mobile Software Developer | Freelance | 2012 – 2014 |
| <ul style="list-style-type: none">• Generated \$10,000+ in app store revenue and prizes with 5,000+ downloads• Developed 20+ applications for Google Play and BlackBerry App World (<i>Java</i>) | | |

PROJECTS

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|--|-----------------------------------|-------------|
| Cryptocurrency Exchange Arbitrage Research | Employee Project Time | Fall 2017 |
| <ul style="list-style-type: none">• Generated ~4% bi-weekly returns during a one-month trial (<i>Apache Spark, Scala, Python</i>)• Built exchange order book data collection framework (<i>NodeJS, REST APIs</i>)• Discovered and tested trading strategies through cryptocurrency and fiat pairings• Presented project at company sponsored lightning talk, available at https://snusite.com/crypto | | |
| FareBuddy | Horizons Hackathon Winner | Spring 2017 |
| <ul style="list-style-type: none">• Project leader, built back-end and deployed on Heroku, available at http://uber.snusite.com• Saves you 10-20% on Uber rides during Surge pricing (<i>NodeJS, MongoDB, Express, jQuery, Bootstrap</i>)• Tied together using OAuth 2.0, WGS84, Passport, Uber and Google Maps APIs | | |
| Bloggame Scripts | Personal Project | Spring 2016 |
| <ul style="list-style-type: none">• Exploited design flaws in a web-based geopolitical game (<i>JavaScript</i>)• Wrote scripts for data analytics and trend recognition by scraping all user profiles | | |
| Additional Projects (Available on GitHub) | Event | |
| • Email Tracker and Analytics (<i>Node</i>) | Personal Project | 2017 |
| • Persistent Pages Adware (<i>JavaScript</i>) | TerribleHack Carleton University | 2017 |
| • BSides CTF 2 nd place (<i>Penetration Testing</i>) | BSides Ottawa Security Conference | 2016 |
| • Magnet Forensics 2 nd place (<i>Reverse Engineering</i>) | Hack the North | 2016 |

TECHNOLOGIES

- **Languages:** JavaScript (ES6), Scala, Java, C#, Python 3, HTML5, CSS3
- **Frameworks/Libraries:** Apache Spark, Pandas, React, ReactNative, Redux, Angular, jQuery, Bootstrap
- **Datastores:** PostgreSQL, MongoDB, MySQL, Redis
- **Tools:** Mocha, Chai, npm, Babel, Webpack, Browserify, git, SSH

EDUCATION

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| Honours BSc Computer Science – 3rd Year | University of Ottawa | 2014 - 2019 |
| Horizons Technology Fellowship Program | San Francisco, CA | Spring 2017 |
| <ul style="list-style-type: none">• \$10,000 scholarship at undergraduate full-stack bootcamp on software and entrepreneurship | | |