

# Jules Mazur

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## Experience

- ▶ **Contractor for OpenConcept Consulting** (*July - December 2016*)
  - Researched solutions to previously unexplored issues when integrating Apache Solr into Drupal
  - Development lead on project involving the planning and development of a dashboard displaying critical computer system information (ongoing)
  - Performed basic Oracle SQL database setup and administration
- ▶ **Developer at SecDev Cyber** (*July 2015 - June 2016*)
  - Built and supported a scalable, networked, security-oriented web application for managing users and internally-used services
  - Regular exposure to data security-related software development with frequent implementations focused on security
  - Worked with and maintained parts of AWS infrastructure
  - Provided on-site IT support
- ▶ **Intern at SecDev Cyber** (*July 2013 - June 2015*)
  - Supported various Wordpress sites by creating, modifying, and configuring themes and plugins with fast turnover
  - Worked extensively on administration of LAMP servers with a focus on security
  - Wrote client-side JavaScript for half a dozen production websites

## Skillset

- ▶ **Experienced full-stack web developer**
  - Extensive experience working with both Nginx and Apache on Linux as well as FreeBSD
  - Very proficient with popular relational databases, including PostgreSQL and MySQL/MariaDB, as well as Python's DBAPI for relational databases
  - Also familiar with MongoDB
  - Experience working with PHP for Wordpress
- ▶ **Frequent user of many languages in various contexts**
  - Python, for secure web app development, network programming, and machine learning
  - Go, for systems programming, web application development, and concurrent programming in distributed systems
  - C, for Arduino programming and barebones system programming
  - Haskell, for web apps, and for secure client- and server-side code
  - Unix shell scripting on Linux and FreeBSD hosts
- ▶ **Familiar with a wide range of frameworks, libraries, and packages**
  - Experienced ELK (Elasticsearch, Logstash, Kibana) stack developer and administrator
  - In Python: Tornado, Twisted, and scikit-learn
  - In Haskell: Warp, Karver, proto-lens (for Protobuf)
- ▶ Expert user of Arch, Debian, and RPM-based Linux distributions, OS X, and FreeBSD, with a thorough knowledge of their internals and extensive experience hardening them against network-based threat actors

## Volunteering

- ▶ **Computer Science Students' Assoc. (CSSA - University of Ottawa)**
  - VP Information Technology (May 2014 - May 2015)
    - \* Administered Google accounts and website hosting
    - \* Updated the organization's website with new WordPress theme
  - VP External Affairs (May - September 2015)
  - Helped prepare for three 101 Weeks (welcome weeks)
    - \* Participated in decision-making process for nearly all aspects of the week-long events in 2014 and 2015
    - \* Helped with logistics, transportation, and setup of dozens of items ahead of 101 Week in 2014 and 2015, participated as a guide in 2016
    - \* Helped incoming students acclimate to a university environment
  - Helped host dozens of events over both terms, including hackathons, workshops, and tutorials
  - Frequently produced graphics (posters and digital assets) for CSSA events during both terms
- ▶ **uOttawa Computer Science Club**
  - Helped manage hosting for various campus clubs and associations
  - Participated in mitigation of damage caused by a major outage at the upstream hosting provider
  - Set up and maintained interim hosting for the CS Club
- ▶ **Great Northern Concrete Toboggan Race 2015**
  - Greeted and welcomed teams and contestants from out of town
  - Guided groups of participants around Ottawa during a day-long scavenger hunt event
  - Hauled and set up heavy equipment on race day
- ▶ **The Future of Canada's Energy conference 2015**
  - Greeted guests and speakers
  - Carried and set up equipment and furniture throughout the event

## Other

- ▶ Frequent hackathon participant: Hack the North 2014, 2015, and 2016, CS Games 2015 and 2016, DubHacks 2015, YHack 2015
  - Bus coordinator for the University of Ottawa and Carleton University during Hack the North 2016
- ▶ Arduino, Raspberry Pi, and Pine64 project maker with a working knowledge of C for embedded systems programming as well as the Python Raspberry Pi API
- ▶ CIRA member and close follower of developments by IETF, WHATWG, and W3C
- ▶ Fluent speaker of English, French, and Polish; advanced speaker of Spanish; intermediate Russian learner
- ▶ Avid cyclist and hiker