



# Mark Mróz

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EDUCATION    ♦ **University of Ottawa**, Ottawa, Canada (2015 – Present)

- Bachelor of Science in Software Engineering
- Anticipated Graduation in December of 2018

AWARDS &    ♦ Selected to present Swift WALA at OOPSLA (2018)

- ACHIEVED    ♦ Selected to develop Swift WALA as part of UCOSP (2018)
- ♦ Second Place in the uOttawa Engineering Entrepreneurship Competition (2016)
  - ♦ Scholarship of the Faculty of Science - Admission (2015)

SKILLS        **IOS** **ALGORITHM DESIGN** **SWIFT** **J2EE** **XCOD**E **AUTOMATED TESTING**  
**RUBY ON RAILS** **PYTHON** **C/C++** **BAMBOO CI**  
**HTML/CSS/JAVASCRIPT** **LEARNING RUST** **KOTLIN** **ANDROID**

WORK         ♦ **Independent Software Developer**, Ottawa, Canada. (03/2017 – Present)

- EXPERIENCE    · (2017) Designed, developed, deployed and currently provide support for an internal timecard tool used by the Homestead, Inc. property management company. Employees based in the GTA, Kingston and Ottawa areas use the app regularly to track their hours, get timecards approved and submit them to payroll. Weeks of work for their payroll staff were automated into a single click.
- (2018) Development to automate other Homestead processes is under way.
- ♦ **Software Engineering Intern**, Synacor, Inc. (05/2018 – 09/2018)  
Full-time software engineering intern on the Synacor mobile team. Developed iOS and Android applications for their customer, AT&T, and ensured their continued success by implementing Continuous Integration using Bamboo (CI).
- ♦ **Software Engineering Intern**, William Demant Holdings, Inc. (09/2017 – 12/2017)  
Full-time software engineering intern in Warsaw, Poland. Developed iOS applications in Swift and C# as part of the Discovery Team leveraging machine learning to optimize patients hearing device experiences.
- ♦ **Software Engineering Intern**, Canada Revenue Agency (01/2017 – 05/2017)  
Full-time software engineering intern in Ottawa, Canada. Designed and implemented internal and external web apps such as dashboards and data submission portals for government agencies in collaboration with my teammates in the Finance and Benefits (FAB) Group.
- ♦ **Software Engineering Intern**, Mark3 Research (05/2016 – 09/2016)  
Full-time software engineering intern in Ottawa, Canada. Designed and implemented a suite of automated unit and integration tests for a business solutions dashboard and configured Jenkins to test the platform before deployment in collaboration with team members in numerous countries.
- ♦ **Founder and Software Engineer**, Shortcuts (05/2015 – 09/2015)  
Alongside a team of two, conceptualized, defined and implemented a two-sided marketplace for independent hair stylists to sell their services directly to the public. Developed the pitch and presented to investors (placing second at the University of Ottawa Engineering Entrepreneurship Competition). Designed and implemented large portions of the iOS app.

- ◇ **Assistant Manager and Fish Smoker**, Whalesbone (05/2015 – 09/2015)  
Smoked and delivered sustainable seafood to the Ottawa, Kingston, Montreal and Gananoque areas. Acquired new customers for the smoked seafood products within the region. Assisted in the management of business operations at the Whalesbone including staffing, product quality and stock.

- PROJECTS
- ◇ **WALA**, University of Ottawa (01/2018 – Present)  
Worked as part of a distributed team of three 4<sup>th</sup> year students to design and implement a Swift to Java translator using the IBM WALA framework. This will ultimately enable support for iOS and macOS static analysis. The work will be presented at the OOPSLA (2018) conference in Boston, Mass. This project was a component of my degree program.
  - ◇ **CHIP-8 Interpreter**, Personal/Open Source (2017)  
Designed and implemented an interpreter capable of running CHIP-8 programs in Swift. Includes support for video, sound, keypad and timers.
  - ◇ **DateThis**, Personal/Open Source (2016)  
Designed and implemented a Tinder style iOS app with a Parse backend out of interest and definitely not loneliness!
  - ◇ **Java CookTime**, Personal/Open Source (2016)  
by a SQLite database. This project was a component of my degree program.

- REFERENCES
- Available on request.