

# LENA HSIEH

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## EDUCATION

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**Bachelor of Engineering: Major in Computer Engineering**

**Sept 2010- Apr 2015 (expected)**

McGill University, Montréal, Québec

**Diploma of Collegial Studies: Pure and Applied Science**

**2008- 2010**

Marianopolis College, Montréal, Québec

## WORK EXPERIENCE

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**Java Software Developer Intern (4 months)**

**May- Aug 2014**

Silanis Technology, Montréal, Québec

- Mapped REST API calls to the company's Java and .NET SDKs
- Wrote builders, converters and service classes to simplify clients' integration with e-SignLive SaaS product
- Wrote and maintained JUnit and NUnit tests
- Provided hotfixes for bugs in the SDKs
- Documented the SDKs in the company's DokuWiki and wrote JavaDocs and sample code for clients

**Software Developer Intern (4 months)**

**Jan- Apr 2014**

Ericsson, Montréal, Québec

- Built a demo web app where users can call, video call and chat using the company's WebRTC JavaScript library, HTML5 and CSS3
- Created an online how-to guide for the company's WebRTC JavaScript library
- Helped write more than 100 automated test cases for Ericsson's Web Communication Gateway using TTCN (testing framework)
- Designed flow diagrams for test cases based on requirements and documented in PlantUML
- Debugged automated test cases using knowledge of SIP protocol, Wireshark and logs

**Network Management Intern (4 months)**

**May- Aug 2013**

Ciena, Ottawa, Ontario

- Refactored and improved the design simulator code
- Designed and developed release features for the design simulator
- Wrote and debugged JUnit and automated integration tests
- Participated in code inspections and agile development

**Java Software Developer Intern (4 months)**

**Jan- Apr 2013**

Silanis Technology, Montréal, Québec

- Worked on the e-SignLive team as a backend Java developer for a SaaS-based e-signature product
- Wrote and refactored Java code on IntelliJ IDE to implement new features
- Developed a Java and C# SDK to simplify clients' integration with the product. Hid the REST API calls and JSON serialization/ deserialization of model objects behind service classes.
- Exposure to Spring framework, JBoss, Apache, Maven, Redmine, JUnit
- Followed Agile Scrum and participated in two-week long sprints

## SIDE PROJECTS

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### **Exert It – Elegant and simple workout to-do list (iOS, available on App Store)**

- Developed iOS 7 compatible fitness app for iPhone using Objective-C and Xcode 5
- Used Adobe Illustrator to create vector icons
- Designed a clean and simple user-interface to keep track of workouts and exercises

### **CaffeThread.com – Personal website and blog**

- Created a personal website/blog using Bootstrap framework, HTML5, CSS3 and JavaScript
- Integrated Google Analytics and Facebook like button

## PROJECTS

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### **Design Project- Android app to simplify in-store purchase of physical products (Current)**

- Build a mobile app on the Android platform to scan shopping items' barcode using ZXing, mobile payment via Stripe and generate a QR code to validate payment.

### **Web application to plan and manage events (Current)**

- Integrate Google account to access user's calendar. Create and invite users to events. Share to-do lists and send reminders via e-mail or SMS.

### **Image Manipulation – Android App**

- Convert an image to a bitmap and then flip or rotate image based on user's inputs
- Compared computation time of serial vs. parallel (Java Threads) using various matrix sizes and thread counts

### **Designed an online 5-stud poker game**

- Implemented hand rank algorithm based on the rules of 5-stud poker
- Java programming in Eclipse, Git version control system

### **Designed an autonomous soccer-playing robot**

- Robot was able to navigate around obstacles to a specific area to shoot balls or defend goal
- Used LEGO NXT and Java programming in Eclipse
- Exposure to multithreading

## TECHNICAL SKILLS

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- **Languages:** Java, C, Objective C, C#, JavaScript, HTML5, CSS3, TTCN, MIPS assembly, VHDL
- **IDE/Editors:** Eclipse, IntelliJ, Xcode, vim, Sublime Text
- **Revision Control System:** Git, Github, Perforce
- **Project Management Tool:** Redmine, JIRA, Jenkins, DokuWiki
- **Applications:** Adobe Illustrator, Wireshark, LogicWorks, CorelDraw
- JUnit, NUnit, Mockito, Bootstrap, Unix commands, UML, RESTful

## LANGUAGES

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English (fluent), French (basic), Chinese- Cantonese and Mandarin (conversational)

## ACTIVITIES AND INTERESTS

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- Graduated from Montreal Chinese Catholic School (14 years)
  - Attended Beijing Language and Culture University for a 1 month intensive Mandarin course
  - Fine Art lessons for 4 years (pencil and color pencil drawings, acrylic painting)
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