LENA HSIEH

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EDUCATION

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

SIDE PROJECTS

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

WORK EXPERIENCE

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 along with JavaDocs and sample code

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

PROJECTS

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.
- Node.js with Express and host on Heroku to communicate with Stripe's server.

Web application to plan and manage events (Current)
- Integrate Google account OAuth 2.0 authentication 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, Java programming in Eclipse and multithreading

TECHNICAL SKILLS

- **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, Mokito, Bootstrap, Unix commands, UML, RESTful

LANGUAGES

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

ACTIVITIES AND INTERESTS

- 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)