Richard Lee 88 South 3rd Street, unit #307 San Jose, CA, USA, 95113

Work Experience

AWS, Amazon AI – Product Manager Technical

March 2018 – Present

Website: richardxlee.com

Cell: 650 701 3533

• Led the development and launch of AWS DeepComposer, world's first musical keyboard powered by machine learning to enable developers of all skill levels to learn Generative AI.

Amazon, Lab126 – Technical Program Manager

March 2017 – February 2018

Email: richardxlee520@gmail.com

- · Architected software stack from back-end ad exchange, device side logic, metrics, and customer experience spanning multiple teams
- Defined performance/process goals and managed teams to reach those goals

Amazon, Lab126 – *Software Engineer*

March 2015 – March 2017

- · Joined as the founding engineer on a newly formed device monetization team
- · Worked on full spectrum of our startup team, from backend service, device side logic, to frontend renderable; from check in process, build automation, to QA test plan; from customer onboarding, over the air update, to new hire ramp up

IBM, Hardware Acceleration Laboratory – Research Engineer

July 2014 – February 2015

- Incubate new system architecture and optimize current system for IBM cloud by merging cutting-edge technology with IBM software and hardware products
- Prototype, design, and implement software to replace the current TCP/IP stack of Erlang Distribution with proprietary technology to achieve a 10x improvement for distributed server on the cloud
- Research, design, and setup experiment to benchmark Baremetal vs Virtual Machine vs Container for a number of metrics on the IBM cloud environment to determine optimal workloads

IBM, Security Systems – Extreme Blue Technical Intern

May 2013 – August 2013

- · Collaborated with two technical interns and one MBA intern to build a technical plan and a business case for a product prototype, from conception
- Took full ownership of product by planning the user interface, user interaction, backend logic, and database, and deciding which features to implement for the current sprint using Scrum Methodology
- Developed a new way of identifying vulnerabilities and mitigations for applications: an automatic threat modeling tool for the IBM AppScan security team, with five patents pending
- One of the final two teams (out of fourteen) chosen to present a business pitch to the CEO of IBM, Ginni Rometty, at the annual North American Extreme Blue Expo in Armonk, New York

A.U.G. Signal Ltd., R&D Department – Software Engineer Coop

Jan. – May 2010, Sep. – Dec. 2011

- · Worked on the satellite interferometry project led by the Canadian Space Agency (CSA)
- Implemented abstruse Matlab/C++ algorithms including calculating satellite baselines, removing earth curvatures, and phase unwrapping to get the final interferogram
- · Worked on the Bomb-suit project led by the Defense Research and Development Canada (DRDC)
- Developed communication, time management, multitasking, and organizational skills
- Attained a grade of Outstanding (10 out of 10) on the final supervisor evaluation

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Summary of Qualifications

- 9 years of product and engineering experience in Artificial Intelligence, consumer electronics, and defense
- Strong product leader and enjoy tackling complex product challenges, identifying the best and simplest product and tech strategies, and leading teams to iterate on them.
- Passionate about software and electrical design and integration shown through DRDC Bomb-suit project, autonomous car project, DARPA UAV competition, and SoC integration at Broadcom
- Excellent ability to acquire new skills and apply them in a professional environment
- · Goal oriented self-starter with the ability to work independently and with a team
- · Private pilot license for fixed wing aircraft

Technical Skills/Projects

Product Management

- · Experienced in delivering products in a fast paced, distributed responsibility, and ambiguous environment
- · Deep knowledge of product life cycle, technical program management, and engineering best practices
- · Confident leader who can prioritize and analyze tradeoffs, communicate clearly and concisely

Software Design

- Extensive C++/C# and Java experiences developed through co-op experiences and self-directed projects
- · Image recognition and computer vision experiences developed from OpenCV programming

DARPA UAV Competition

May – December 2011

Cell: 408 767 0573

Website: richardxlee.com

Email: richardxlee520@gmail.com

- · Collaborated with two other team members to build an autonomous quad rotor flying robot that can avoid obstacles using computer vision for a competition held by Defense Advanced Research Project Agency
- Integrated 9 degree of freedom accelerometer with ultrasound rangefinder, and magneto sensor to make our initial measuring unit
- · Designed and implemented serial communication and electrical speed controlling algorithm using Arduino
- · Wrote object recognition, facial recognition and laser tracking algorithm using OpenCV

UBC RoboRacers 2010 Competition

May – August 2010

- · Collaborated with three other team members to build a fast and reliable tape following robot
- Designed and built the robotic sensor circuits such as IR sensors for following tape, an H-bridge for forward and reverse motor control, and power distribution circuits
- · Programmed an efficient controlling algorithm which enabled the robot to run at optimal speeds, evade obstacles, and switch lanes
- · Improved the robot auto-steering mechanism using PID control

Education

University of British Columbia
Bachelor of Applied Science
Major in Engineering Physics, Electrical Option
Dean's Honor Roll
NSERC Undergraduate Student Research Award

Vancouver, British Columbia, Canada September 2008 – May 2014 CGPA – **82%** April 2009 – May 2014 January 2010, December 2011, August 2013