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# JEROME CHING

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## SUMMARY PROFILE

- Strong problem solving skills acquired through critical thinking in Physical and Environmental Sciences
- Strong interpersonal and communication skills gained through working in group settings in the lab in addition to years of customer service relations
- Excellent **presentation and report writing skills** using software packages like **MS Office, and PDF Adobe Reader** as shown through diverse range of projects
- Able to work with Mac, Windows, Linux and Android Machines
- Dedicated to follow through and completing assignments and can work unconventional shifts
- Follows Standard Operating Procedures and directions accurately and can improvise when needed

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## TECHNICAL LABORATORY EXPERIENCE

- Proficient at working in a lab setting due to the hundreds of experiment performed in various fields
- Excellent Notebook writing skills and record keeping skills
- Extensive knowledge and familiarity with lab equipment and techniques acquired through over 1000 hours of lab work
- Excellent organization and time management skills used to complete experiments in an efficient manner
- Able to perform extractions and purifications of organic and inorganic materials from various sources such as soil, solid, liquid or biological source
- Used Aseptic transferring techniques hundreds of times to transfer and prepare biological samples for observation, culturing and essaying purpose
- Prepared Hundreds of varied media used in Microbiology experiments
- Used Volumetric transferring techniques to prepare various primary solutions and many solute and solvents used in an experiment

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## EDUCATION/CREDENTIALS

*Centennial College*

**Computer Programming, Major in Game Programming Currently Ongoing**

*Centennial College*

**Biotechnology, Major in Microbiology Conferred in June 2015**

*University of Toronto*

**Honours Bachelor of Science, Double Major in Biochemistry and Environmental Science Conferred in June 2011**

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## RELEVANT IT AND PROGRAMMING SKILLS

### **Programming Skills**

- Able to Program in various computer language such as C#, C++, Java, Java Script
- Works proficiently with Databases such as MySQL, SQLite and Oracle DB
- Can create websites using HTML, CSS, Java Script
- Proficient at using Unity Engine using C# as a programming language
- Enjoys Working with computer hardware either by building a computer or repairing one
- Can trouble shoot network anomalies and fix them

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## RELEVANT LABORATORY EXPERIMENTS PERFORMED

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### **Analytical Chemistry**

- Project on extraction and quantification of iron in river water and ore.
- Identification of fillers added to polymer films with the use of Extraction procedures, FTIR Beilstein Test and density test
- Measurement of Toronto's tap water hardness
- Quantification of multiple Colorings in mouthwash with the use of UV-VIS spectrophotometer and spec 20
- Quantification of vitamin C content in tablets and comparison between brand name and generic brand

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### **Food Microbiology**

- Major Project in identifying an unknown bacteria by using acid fast stain, gram stain, negative stain, hanging drop slide, spore capsule stain and observation of sample
- Major project on Quality Assurance of Bottled water and Tap water
- Project on cloning and reproducing page virus by using *e.coli* as a host.

### **Biochemistry**

- Introduce foreign vector to *e. coli*, isolation of cells with functioning vectors and restriction and isolation of DNA from cells. Electrophoresis was used to confirm DNA presence.
- Purification and quantification of nucleases from *e.coli*. Chromatography and dialysis procedures were used to isolate and concentrate protein. Bradford essay and SDS electrophoresis was applied to confirm and quantify the protein
- Partial purification of IgG. Cell extraction procedures were used to extract proteins from cells and ion exchange resins and chromatography tests were used to isolate IgG, electrophoresis was used to identify IgG
- Western Blotting of GST fusion protein. Isolated DNA form cell. Westernblot was used to isolate different length of DNA. Membrane was washed, blocked and labeled with GST/ HRP conjugates

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## WORK EXPERIENCE

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Shoppers Drug Mart

### **Merchandiser**

May 2001 – Present

- Maintained an excellent work ethic and efficiency in a fast pace work environment
- Provided excellent customer service by solving various customer problems and recommending products
- Worked in a team environment to maintain the store in a presentable manner

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## EXTRA-CIRCULAR ACTIVITIES

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South Asian Autism Awareness Centre, Scarborough, Ontario

### **Volunteer**

2010

- Employ Applied Behaviour Analysis (ABA) therapy to children with autism, under the supervision of an ABA therapist
- Assisted Speech Pathologist as note taker in weekly therapy sessions with students

University of Toronto Supermileage Team

2009

- Assisted in design and development of a low-cost, fuel efficient, one person vehicle for competition.