

# Poulomi Ganguly

📞 (587) 938 6005 | [poulomi@ualberta.ca](mailto:poulomi@ualberta.ca)

🌐 <https://linkedin.com/in/poulomii>

🔗 <https://github.com/poulomi-g>



Engineering Co-op Program  
University of Alberta

## EDUCATION

**Bachelor of Science (Bsc.) in Computer Engineering**, University of Alberta, Edmonton

**2018 – 2023 (Expected)**

## TECHNICAL SKILLS

**Programming:** C/C++, Python, Swift, Java, Assembly, ReactJS

**App Development and Web Development:** Android Studio, XCode, HTML, CSS, XML, PHP

**Database Management:** MySQL, Firebase, WAMP

**Adobe:** Photoshop, Illustrator

**Misc.:** GIT, LINUX/UNIX, Network Protocols and Injections, Soldering, 3D Printing

## PROJECT EXPERIENCE

**iOS App Development: Business Card Manager**

*January 2020 - Current*

• Developed an iOS application in [XCode](#) used for recognizing registered users faces in real-time with [ARKit 3](#) to display their business card details • Trained Face models using [Core and Create ML](#) with [95%+ confidence](#) • Detected faces using [Vision API](#) and directed face model data to [Firebase](#) • Presented proof of concept to panel of judges at [HackED 2020](#)

**Android App Development: Juice Up!**

*November 2019*

• Programmed front-end of app on [Android Studio](#) using [Google Maps API](#), [reverse geo-coding](#) and other 3<sup>rd</sup> party SDK's in 24 hours • Stored registered information on locally hosted [WAMP](#) server using [MySQL](#) and [PHP](#) and integrated Google Login Feature for community contributions • Sent [personalized notifications](#) to users based on query history and frequent locations to increase app interaction.

**Two Way Arduino Messaging**

*November – December 2019*

• Implemented a program that allows 2 users to chat simultaneously through an Arduino's serial monitor in [C++](#) • Utilized [RSA encryption](#) technique by randomly generating public and private keys; thus [safeguarding](#) against possible privacy breaches • [Automated](#) their exchange using Euclid's algorithm and [reduced message delay](#) with fast exponentiation

**eCommerce Website Development: Accessories Shop**

*June – August 2019*

• Developed and eCommerce site using [HTML](#), [CSS](#), [PHP](#) and [SQL](#) over a six week online course on Internshala • Incorporated a [login page](#) which securely fetched encrypted details from local [WAMP](#) server using POST method • Maintained record of items in cart, implemented [SEO visibility](#) and potential [Google AdSense Integration](#)

## WORK EXPERIENCE

**Head of Writing Team**, Pradeep Mittal, Tata Consultancy Services, India

*June – August 2019*

• Wrote and edited [10+ chapters](#) for an independent writing project based on [Digital Transformation](#) which has been approved for publication on March 2020 • [Recruited](#) members for the writing team and [coordinated comprehensive pitches](#) that doubled quantity and quality of every chapter • Provided creative insight into how companies can appeal to newer demographics and improve outreach

**App Development Intern**, Ansyst Security, India

*May - July 2016*

• Utilized Android Studio to make a quiz application with basic UI elements and form recording abilities that quizzed the user on a chosen topic • Fetched quiz questions randomly from pre-populated quiz bank and [kept track of score history](#) and performance improvements • [Debugged](#) and [reported to Software Head](#) with potential improvements

## EXTRACURRICULAR INVOLVEMENT & INTERESTS

- Member of the University's [Engineering Student Leaders](#) group – *Jan 2020 - Current*
- Participated and presented in [HackED Beta 2019](#) and [HackED 2020](#)
- Competed in [Alberta Collegiate Programming Contest 2019](#), placed 10<sup>th</sup> – *Nov 2019*
- Active member of the [Undergraduate A.I. Society \(UAIS\)](#) – *2019 - Current*
- Placed 9<sup>th</sup> in [All India Essay Competition](#) organised by the UN Information Centre for India and Bhutan, SRCM and The Heartfulness Institute - *2017*
- Self taught Vector Design on [Adobe Photoshop](#) and Illustrator – *2016 to present*

## CERTIFICATIONS

- ReactJS for Web Development, Microsoft Azure x iGeek – *Feb 2020*
- Web Development, Internshala – *May 2019*