# LIKHON GOMES

**SOFTWARE ENGINEER I INVENTOR I STUDENT**

## 👤 About Me

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## >_ Programming Languages

**Java**

**Swift**

**Python**

**C**

**C++**

**C#**

**Javascript** (Learning in Progresss)

## 📖 Coursework

- Calculus 1 & 2
- Mathematical Concepts in Computing 1 & 2
- Computational Probability & Statistics
- Program Design & Abstraction
- Data Structures
- Data Structure & Algorithms
- Computer Systems & Low Level Programming
- Introduction to Systems Programming & Operating Systems
- Web Application Development
- User Experience Design

## 🏅 Achievements

**Founder's Scholarship**
Temple University I 2016 - 2020

**Dean's Scholar List**
Fall 2017

## 💼 Work Experience

**ELECTRIC BLUEFISH INC (Volunteer)**　　　　　　**August 2018 - Present**
**iOS App Developer**

- Designing a product database iPad app for a company named EpoTek to use it at tradeshows.
- Working as both UX and backend developer.

**Ceph**　　　　　　**May 2018 - Present**
**Research Assistant (REU Program)**

- Worked with a team to deploy Ceph Scalable Distribution System for Salesforce
- Developed a Prefetch Mechanism to prefetch extra IO from the cluster, before the processor requests for it.
- Translated existing python codes for Belief Cache into c++ codes to make it compatible with Ceph.

**Upwork Inc**　　　　　　**January 2013- July 2015**
**Freelance Graphic Designer**

- Worked as UI / UX Designer for mobile apps and websites.
- Designed Logos/Banners/Packages for companies all over the world.
- Responsible to designing t-shirts for Teespring/SunFrog Tees and Amazon Merch

## ⚗️ Projects

**Smart Fire Evacuation Alarm,** Penn Apps Retro　　　　　　**Spring 2018**

Designed a fire evacuation alarm using Dijstra's and A-star pathfinding algorithm. This alarm is supposed to aid people out to safety from a burning building.
Using Couple of Heat detection / Momevent Detection Sensor, the alarm helps determine where the fire is in the building and avoid that path. Using Dijkstra's andA-Star Pathfinding algorithm the device guides people out to safety taking the shortest and the safest path.

**Technologies Used:** Raspberry Pi, Arduino UNO, Dijkstra's Algorithm, A-Star Algorithm, Python, C++

**Active Shooter Alarm,** Philly Codefest　　　　　　**Spring 2018**

Designed a security alarm that help detect a shooter in a building and detect human being near a shooting sight and alert them by providing the possible active shooter location and help prevent it.

**Technologies Used:** Raspberry Pi, Arduino, Adafruit Playgroud Express, Neopixel, Firebase, Android Studio, Eddystone Beacon, Java, Python, C++

**Fraction,** HopHacks　　　　　　**Fall 2017**

Fraction is a pennystocking app that we created in Fall of 2017 when United States was hit by two viscious hurricanes: Maria & Harvey. The idea of this app was to reinvent the way we donate money for social causes. This app basically keeps an eye on users bank account and deducted any remaining cents after each transaction and save it in a temporary account, later which can be donated for any cause or used for personal reason.

Technologies Used: Java, Android Studio, Firebase, Capital One Nessie API

## 🎓 Education

**TEMPLE UNIVERSITY,** Philadelphia, PA　　　　　　**Fall 2016 - Spring 2020**
BSc - Computer Science