

# Fernando Socualaya

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Computer Science student at UTEC with experience in data structures implementation, object oriented programming and mobile development. Passionate about learning, teaching and sharing knowledge. Interested in learning about Software Engineering and exploring areas such as Data Science, Machine Learning and Computer Vision.

## Experience

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### Bevertec

SOFTWARE ENGINEERING INTERN

[Lima, Peru](#)

February, 2020 - Current

- Improvement of ATM system interfaces.
- Software development and maintenance according to client's requirements.

### Xurface

ANDROID DEVELOPER

[Lima, Peru](#)

August, 2019 - January, 2019

- Led the development of an Android application to gather information about consumers of our client.

### Crack The Code Peru

COMPUTATIONAL THINKING TEACHER

[Lima, Peru](#)

July, 2017 - April, 2019

- Introduced K12 students to the computational thinking in a summer program.
- Speaker and coach at Girls Inspire Tech 2019.
  - Impacted over more than 40 K12 girls of a public school in the city of Ica, Peru by giving them the tools to prototype mobile applications

## Projects

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### Growing Neural Gas

GITHUB REPO.

Implementation of the Growing Neural Gas algorithm and images processing.

### Cheese AI

DEMO. GITHUB REPO. ARTICLE.

Chess-player agent.

### Bayesian Net

GITHUB REPO. ARTICLE.

C++ Implementation of a Bayesian Network.

### Neural Net

GITHUB REPO. ARTICLE.

C++ Implementation of a Neural Network.

### Yape Negocios

REPO UNAVAILABLE.

Mobile application that simulates sending an electronic receipt after making a purchase and paying with Yape.

### Skeletonization

GITHUB REPO

C++ Implementation of Skeletonization algorithms for binary images.

### Mapping

GITHUB REPO

C++ Implementation to find the *convex hull* of a set of points.

### Graph

GITHUB REPO

C++ implementation of a graph, search functions and verification of properties on the network.

### Automaton

REPO UNAVAILABLE.

C++ implementation of an automaton and a minimization algorithm for it.

## Education

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## Universidad de Ingenieria y Tecnologia

4TH YEAR STUDENT, COMPUTER SCIENCE

Lima, Peru

March, 2017 - Current

## Global SERS

AI FOR LOCAL VALUE ATTENDANT

Remote

October, 2020 - November, 2020

## Extracurricular Activities

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### Universidad de Ingenieria y Tecnologia

Lima, Peru

- Teaching Assistant
  - Algorithmic assessment with Python.
  - Assessment in object-oriented programming with C++.
- Mentor at the Peer Mentoring 2019-1 program.
  - Introduced UTEC freshmen to the university.
- Member of the ACM@UTEC student chapter
  - Speaker at the "Intro to Linux" workshop.
- Member of Spinout@UTEC
  - Part of the organization team of the event "Full day I & E" where the participating teams received an introduction to the ecosystem of innovation and entrepreneurship, as well as the necessary tools to validate their ideas.
- Volunteer at:
  - OpenDay 2019
  - i+ Day 2019
  - UTEC Networking 2017

## Skills

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<b>Operating Systems</b>	Ubuntu, Windows, Other Linux-Based Distributions
<b>Programming Languages</b>	C/C++, Python, Java
<b>Databases</b>	Firebase, PostgreSQL, MongoDB
<b>Frontend</b>	HTML, CSS, JS, JSON,
<b>Backend</b>	Gin, Flask, REST
<b>Mobile</b>	Android,
<b>Others</b>	Git, Docker, LaTeX

## Languages

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### Spanish

CERTIFICATE UNAVAILABLE.

Native.

### English

TOEFL ITP B2.

Independent User.