

ERFAN HOSSEINI SERESHGI

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PROFESSIONAL EXPERIENCE

Research Assistant, LA-CEAL, Tulane School of Public Health 2021

New Orleans, LA

- I was tasked to develop a program to study and observe public response to covid19 and its vaccines on social media using python (NLP)

Research Assistant, Geographic Momentary Assessment, Public Health 2021

New Orleans, LA

- I developed a python program to manage their relatively massive datasets of landmarks and users (patients) and compute users' daily, weekly and monthly exposure to alcohol, drugs, crime, recreational centers, etc

IT Specialist, Tulane Enrichment Program Summer 2020

New Orleans, LA

- Troubleshooting and providing IT support to the teachers and students during their online course was one of my responsibilities.

Project Manager, Dynamic Portal 2015 – 2018

Tehran, Iran

- DP was my own project, a new student info system and LMS at Amirkabir University of Technology

Head of IT Guru, AIESEC in Iran 2017 – 2018

Tehran, Iran

- I was the manager of the website and worked on an online customer support bot

Front-end Developer Internship, Moduland Summer 2017

Tehran, Iran

- I designed and developed a responsive website for one of their products

EDUCATION

Tulane University – New Orleans – Ph.D. 2018 – 2023

- Computer science, computational geometry, embedded graphs. GPA: 3.8/4

Amirkabir University of Technology – Tehran – Bachelor of Science 2014 – 2018

- Computer science, computational geometry

RESEARCH AND PUBLICATIONS

Graph Sampling for Map Comparison (received best paper award) 2021

Jordi Aguilar, Kevin Buchin, Maike Buchin, Erfan Hosseini Sereshgi, Rodrigo I. Silveira and Carola Wenk

- ACM Sigspatial, Spatial Gems

Measuring Length-Preserving Fréchet Correspondence for Graphs in \mathbb{R}^2 Kevin Buchin, Brittany Terese Fasy, Erfan Hosseini Sereshgi and Carola Wenk - <i>Fall Workshop on Computational Geometry (FWCG)</i>	2021
Improved Map Construction using Subtrajectory Clustering Kevin Buchin, Maike Buchin, Joachim Gudmundsson, Jorren Hendriks, Erfan Hosseini Sereshgi, Vera Sacristán, Rodrigo I. Silveira, Jorrick Sleijster, Frank Staals and Carola Wenk - <i>ACM Sigspatial, LocalRec</i>	2020
Computing Relevant Subtrajectory Bundles Faster Erfan Hosseini Sereshgi and Carola Wenk - <i>SOCG, YRF</i>	2020
Clustering Gene Expression with Polygonal Chain Alignment <i>Capstone project</i>	2018

PRESENTATIONS

Graph Sampling for Map Comparison <i>ACM Sigspatial, Spatial Gems</i>	2021
Measuring Length-Preserving Fréchet Correspondence for Graphs in \mathbb{R}^2 <i>Fall Workshop on Computational Geometry (FWCG)</i>	2021
The Study of Gentrification on Social Urban Simulation - How Income and Interest Can Shape Neighborhoods <i>Tulane University</i>	2020
Improved Map Construction using Subtrajectory Clustering <i>ACM Sigspatial, LocalRec</i>	2020
Computing Relevant Subtrajectory Bundles Faster <i>SOCG, YRF</i>	2020
Clustering Gene Expression with Polygonal Chain Alignment <i>Amirkabir University of Technology</i>	2018
A brief Intro to Computational Geometry <i>Amirkabir University of Technology, Graduate studies seminar</i>	2017

TEACHING EXPERIENCE

Arduino course teacher at Tulane Enrichment Program <i>Instructor</i>	Summer 2022
Introduction to Discrete Math Lab <i>Teaching assistant</i>	Fall 2020
Introduction to Algorithms Lab <i>Teaching assistant</i>	Fall 2019
Python game design teacher at Tulane Enrichment Program <i>Instructor</i>	Summer 2019 and 2022
Intro to Computer Science I Lab (Python) <i>Teaching assistant</i>	Fall 2018, Spring 2019, Spring 2020

Operating systems Lab/Workshop

Spring 2017

Teaching assistant

C++ Programming teacher at Helli 4 high school

2014 – 2015

Instructor

LEADERSHIP & VOLUNTEER EXPERIENCE

- Senator at Tulane Graduate and Professional Student Association (2020-present)
- IT team leader at AIESEC in University of Tehran (2017-2018)
- Marketing designer at AIESEC in Amirkabir University of Technology (Spring 2017)
- AIESEC global volunteer for raising public awareness about clean energy and recycling in Guangzhou, China. (Summer 2016)
- Member of scientific association of math and computer science at Amirkabir University of Technology (2015-2016)

CERTIFICATES

- Java programming from Amirkabir University of Technology
- Android development from Amirkabir University of Technology
- Web development and web design from Amirkabir University of Technology
- CITI Group1. Biomedical Researchers
- CITI Group4. IRB, Biomedical Research

SKILLS & ABILITIES

- Skilled in Python, Java and C++
- Familiar with HTML, CSS and Javascript
- Have worked with R and R studio
- Have experience working with Adobe Photoshop and illustrator
- Familiar with Git and Visual Paradigm
- Have basic knowledge about Android Studio

HONORS & AWARDS

- Best paper award at ACM Sigspatial: Spatial Gems (2021)
- Ranked 6th in the Iranian national CS graduate school entrance exam (2018)
- Ranked among top 5 computer science students at Amirkabir University of Technology (class of 2018)
- Semi-finalist in 2014 BAYAN coding contest in Iran
- Ranked among 3% in the Iranian national university/college entrance exam (2014) (More than 60,000 students)
- Was selected by and studied at the national organization for development of exceptional talents (NODET) in Iran