

Hossameldin Hamza

Undergrad Computer Engineer

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- ICPC Profile
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Proactive, reliable, and a fast learner. Strong academic performer and have secured and maintained a full scholarship to study computer engineering at Nile University. Possess high problem-solving skills and competitive problem solver. Worked on many web applications and Internet of Things projects. Keen to pursue a career in software engineering with a focus on back-end development.

WORK EXPERIENCES

- Software Application Engineer Intern**

Valeo Cairo | Jul 2022 - Sep 2022

 - Developed a cross-platform desktop application using Electron.js to send well-structured new software release notification e-mails**
 - Developed a responsive GUI to ease data filling following MVC architecture pattern
 - Validated releases data filled by users and render HTML e-mail body with this data
 - Parsed the recipients' e-mails from a google sheet using Google APIs
 - Send the email with the rendered body from the app using the sender's email without the need to e-mail clients
 - Technologies used:** HTML, CSS, JavaScript, Bootstrap, Nodejs, Electron.js
 - Extended a CLI version of the tool to be integrated with Jenkins to automate new release e-mails**
 - Added development and production loggers to monitor errors and emails sent from the CLI
 - Made a list of flags to configure all the details of the email body and the tool itself
 - Added the CLI to an **Alpine Docker container** to be deployed on the CI machine
 - Developed Python and Bash scripts to automate packaging and uploading the developed modules to the remote repository**
 - Used SSH to access a remote server and run the developed scripts**

- ICPC-NU Community | Competitive Programming Community**

Nile University | Oct 2020 - Present

 - Gave periodic sessions about Algorithms, problem solving, and improving code performance.
 - Participated in designing the training road map of the community.

PROJECTS

- University Schedule-Generator**

Open Source | Jan 2023

This is an API written in Node & Express to generate all possible schedules for the specified courses using backtracking algorithm.

Technologies used: TypeScript, Node, Express, Mysql, AWS (RDS, S3, Elastic Beanstalk), Docker, Circleci, MVC Architecture

Python implementation of the algorithm

- Smart Home**

Open Source | Jan 2022

A full-stack web app that gives full control of all home lights, outlets, and appliances from any device connected to the internet.

Technologies used: HTML, CSS, JavaScript, Bootstrap, Node.js, Express, Mongo, Raspberry Pi, Python, Raspi-os, SSH, and Fritzing.

- Course Registration System**

Open Source | Jul 2021

A system written completely in c++ using graph theory. This system enables creating users, registering courses, showing the entire study plan that contains all the courses sorted in order.

- Yelp-Campground**

Open Source | May 2021

A full-stack web application that provides the minimum functionalities of Yelp for campgrounds, where people can upload images and information about their places, look for a place, and leave reviews.

Technologies used: HTML, CSS, JavaScript, Bootstrap, Node.js, Express, Mongo, Cloudinary and MapBox.

AWARDS & ACHIEVEMENTS

- Participated in ACPC (Africa and Arab Collegiate Programming Championship) 2022
Ranked 63rd among Africa and Arab teams
- Participated in ECPC (Egyptian Collegiate Programming Championship)
2022 - Second place among Nile university teams 2021 - Third place among Nile university teams
- Participated in ACPC (Africa and Arab Collegiate Programming Championship) Kick-off 2022
- Participated in Google Hash Code 2022 - 60th all over Egyptian teams
- First place in Undergrad Research Forum 2021

EDUCATION

- Exchange semester in Computer Engineering
Riga Technical University | Jan 2023 - Jun 2023
Fully funded merit based exchange semester to study in RTU, Latvia
- BSc in Computer Engineering
Nile University | Sep 2019 - Present
CGPA: 3.96
Award: Full scholarship at Nile University

TECHNICAL SKILLS

- Programming languages**
C, C++, Java, Python, JavaScript, Bash Scripting, 8086 Assembly
- Programming paradigms & skills**
OOP, REST principle, Problem Solving, Algorithms, Data Structure
- Electronics**
Cadence, Proteus, Node-MCU, Raspberry Pi, Arduino, Verilog
- Web Technologies**
HTML, CSS, JS, Bootstrap, Node.js, Express, TypeScript, Mongo, SQL, Docker, Nginx, Postman, Heroku
- Version Control**
Git/GitHub

LANGUAGES

- Arabic (Native)
- English (Professional)

For website version visit:
https://hossamhamzahm.github.io/Hossam_Hamza_Resume_Lv.html