





# RARES PURTAN

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[Github](#) 

I am a second-year Computer Science student looking to secure a Quality Assurance Intern position that enables me to get hands-on experience testing software in a real-world environment. I have prior experience as a Web Developer which helped strengthen my user experience and collaboration skills. My career goal is to assume a QA position which allows me to further develop my programming skills whilst working in test automation.

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## Education

### BSc Computer Science / University of Essex

SEPTEMBER 2019 – JULY 2022

First year grade average: 87%, Dean's List.

### A-Level / Colchester Sixth Form College

SEPTEMBER 2017 – JUNE 2019

Information and Communication Technology (Distinction\*), Photography (A), Accounting (B).

Additional Studies: Mathematical Studies (A), Financial Studies (C).

Departmental Award for Information and Communication Technology.

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## Technical Skills

- Most experienced in Java and Python
- Some experience in GIT, SQL, HTML&CSS, PHP and Vue.js, Sass
- Dabbled in C++

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## Work Experience

APRIL 2019 – PRESENT

### Crew Member / McDonald's

- A very fast paced environment that requires strong adaptability and teamwork skills to efficiently work multiple stations whilst coping with high store demand.
- Duties include food preparation, stock management, detailed cleaning and closing the restaurant.
- Working here taught me the value of fulfilling my responsibilities to carry out the highest quality of work possible.

JULY 2020 – AUGUST 2020

### Web Developer Intern / WESAF

- Worked closely with client and a team of 2 designers to collect requirements and ensure project quality.
- Edited existing website to implement new features and correct functionality errors.
- Designed and created front-end elements to implement pre-existing functionalities built on Vue.js framework.

- Utilising my communication skills, I helped restructure the information architecture to highlight the business practices in a more efficient way.

JUNE 2020 – JULY 2020

## **Technology Intern Experience / Bright Network**

- A 3-day project which helped to develop initial project management skills and a broader understanding of software development lifecycles, including an introduction to Agile Methodology, DevOps practices and automated testing.
- Applied the knowledge and skills gained when I planned sprints for the implementation of facial recognition feature into an app's sign-in page.

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## **Projects**

### **AI Predicts House Prices / Python, Machine Learning**

- Worked in a team of 7 students to build a predictive model that was ranked top 7% in the competition out of approximately 5000 participants.
- Researched and implemented data cleaning techniques and machine learning algorithms (Linear Regression) to generate an accurate prediction.
- Used Jira platform for critical task management.

### **Solving the 8-Puzzle Problem / Java**

- Coded the game logic using Java.
- Researched various state space search and short path algorithms.
- Decided to use the A\* Algorithm which reduced computation time by 99% and reduced memory used by expanding 90% less nodes compared to other algorithms tested.

### **Password Manager / Python, SQL**

- Utilising my planning skills, I took initiative to create an application that stores log-in data in an encrypted database.
- Researched source code of various password managers and documentation of encryption algorithms and Python modules whilst planning the implementation of my application.

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## **Interests and Hobbies**

### **Societies**

- Trading and Investment Society – Financial Market Analyst
- Essex Entrepreneurs

### **Photography**

- Practicing photography motivated me to learn new skills such as how to use Photoshop and various design concepts that I now use when designing front-end applications.

### **PC Building**

- Using my knowledge of computers to help friends and family find the right components for their needs whilst allowing them to save on the overall build cost.