

# RADU ECHIM

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📍 Location: London, United Kingdom

🌐 github.com/rechim25

## EDUCATION

### MEng Computer Science

#### University College London

📅 Sept 2019 – Jun 2023

📍 London, United Kingdom

- Major: Computer Science
- Minor: Applied Mathematics in Finance, AI and Data Analysis
- Awards: Top 3 Y1 final projects. Designed food and medicine delivery system architecture and efficient matching algorithms using mathematical concepts.

## EXPERIENCE

### Software Engineer Intern

#### Tellence Technologies

📅 September - December 2020 📍 Bucharest, Romania & Remote

- Tellence Technologies is a Romanian-based, IT and outsourcing company. Assigned to the software development team for LiveU, providers of 5G live streaming capabilities for CNN and FoxNews.
- Vuejs front-end developer. Worked in a SCRUM environment on implementing license activation features for user devices, map visualization of units and API interaction.
- Helped port existing features to comply with Chinese regulations, users can now license individual units at a time.
- Created new API endpoints for the unit-simulator using Java and Spring in order facilitate testing between servers and web application.
- Technologies: Vuejs, MySQL, Javascript, Java, Websocket and REST API.

### Programming Tutor

#### University College London

📅 Since September 2020

📍 Remote: London, UK

- Helping 1st year Computer Science students with programming concepts and practices in C, Haskell, Java and Python.
- Organizing weekly 2-hour sessions in which I help tutees with their homework and answer questions.
- Tutees started tackling more advanced programming problems and have a better understanding of debugging techniques.

### Python Development

#### White Image

📅 June 2020

📍 Bucharest, Romania

- Created and packaged for production a web scraper application in Python that collects advertised products and marketing data from websites.
- Improved employee efficiency by automating the manual collection of data and database insertion.
- Technologies: Python, Selenium, BeautifulSoup, Numpy, Matplotlib.

## SKILLS

### Programming:



### Other:

Dedicated math problem solver, team player, English and German speaker.

## PROJECTS

### Founder

#### Bytewell Web Development

📅 July 2020

📍 Romania

- Created a website together with 2 colleagues to promote our web development skills and create a network of clients.
- Currently working on 2 business websites projects for companies based in Romania.
- Technologies: Django, HTML5, CSS, PostgreSQL, Azure.

### Business Website

#### Siscom Media Services

📅 June 2020

📍 Romania

- Helped company redesign their website. Created new one using Wordpress and PHP.
- Knowledge of SQL, PHP procedural and object-oriented.

### Image Processing in Java

📅 May 2016

- Implemented an algorithm that generates a depth map from a stereo pair of images of the same object using Dynamic Programming.
- The programme can export the disparity map as an image suggesting the depth of the object in grayscale representation.

### C Maze Generator and Solver

📅 November 2020

- Created a recursive maze generator and solver in C and Java AWT for graphics.

### Tetris AI in Python

📅 November 2020

- Designed Tetris AI in Python using own genetic algorithm implementation with NumPy.
- Experimented with different artificial intelligence techniques for genetic algorithms.

# ACTIVITIES

## London Student Bootcamp

📅 February 2020      📍 London, United Kingdom

- Worked in a team with 3 colleagues to promote our business idea of dismantling the counterfeit market with blockchain technologies.
- Prepared business idea for presentation to potential investors.

## FIRST Tech Challenge

📅 March 2019      📍 Bucharest, Romania

- Robotics programming competition for high-school students.
- Java programming for robotics hardware. Used image recognition libraries to determine patterns in photos.
- User interface design and reliability testing.

## Annual International Space Settlement Design Competition

📅 July 2018      📍 Kennedy Space Center, USA

- 2nd place.
- Worked within a team of 64 members with the structure of a small company. Managed to complete project within 3-days of coordinated work.
- Practiced and improved fast research techniques on new, on-the-spot topics to meet tight deadlines.

# CERTIFICATION

Baccalaureate Diploma  
[Mathematics](#) | [Physics](#) | [Literature](#)

Grade: 9.9 / 10

Java Programming I  
[Cisco Academy, ICT Foundation](#)

- Knowledge of OOP design, UML design, interface programming, Java Servlets, GUIs in Java.

Financial Markets Course  
[Coursera, by Yale University](#)

- Introduction to the concepts of risk management, behavioral finance, securities and financial analysis.

# LANGUAGES

English      ● ● ● ● ●  
Cambridge English: Advanced (CAE), C1

German      ● ● ● ● ●  
Deutsche Sprach Diplom 2019, B2 Level