

## Chiorean Tudor-Octavian

### Professional Experience

#### Dec 2020-present - Subscript, San Francisco- *Software Engineer*

- Being part of the entire B2B startup process as an initial member of the engineering team, setting up *code guidelines*, *infrastructure* and providing input at every step of the process
- Developed *key infrastructure*, taking on an important DevOps role - **CI/CD** via **Github Actions**, **Heroku**, **Netlify**, **AWS**, keeping time-to-production **<15 minutes** to allow a tight iteration loop while minimizing errors in production by setting up an appropriate *integration and E2E testing pipeline and guidelines*
- Developed integration systems to keep data in sync with *external APIs* from **Salesforce**, **HubSpot**, **Stripe**, **Quickbooks**, pulling in **100k+ rows daily**, load distributed to a worker queue system to avoid locking up the main API
- Chose modern, industry-standard frameworks, packages and solutions across the entire stack from **Frontend** to **Backend**, **DB** and **Infrastructure** to keep development efficient
- Worked on *mission-critical systems* interacting with financial customer data, ensuring reliability and correctness of reports and **Stripe Payments**

#### Nov 2020-present - Toptal- *Software Engineer, Freelancer*

- Passed the *vetting process to join the Toptal community* and promptly found success networking with fellows and taking on a project by communicating clearly with clients

#### Jun 2019-present - “Panthera” Contest Hosting, Cluj-Napoca- *Full-stack Engineer*

- Consulting for planning the architecture, development and deployment of a contest platform designed to ease recruitment process for IT companies, allowing companies to vet **100+ participants on each contest, saving an estimated 10k\$+ in recruitment costs**
- Designed and built the entire application using the **PERN** stack
- Built web service to handle evaluation of untrusted user-submitted code, run in a secure sandbox, accessed as an API through a **Flask** application
- Migrated deployment from local servers to **Heroku** and **AWS** cloud hosting, allowing **99.90% uptime**, and **load balancing 1000+ code submissions per minute during contests**

#### 2019-2020 - Wolf Trading Co, Remote- *Software Engineer*

- Consulted business partner as an engineer to plan and develop a minimal latency arbitrage trading software, resulting in a profitable automated trading system
- Built a **FIX API** engine in **Python** to fetch financial instruments data with low latency
- Application deployed on remote server with live data visualization, runtime logger, running on multiple processors and run with real currency

#### 2019 - [Sector Labs](#), Cluj-Napoca- *Full-stack Intern*

- Created automated Image processing software in **Python** and **C++** to enhance quality of real-estate photos using an approach similar to HDR imaging
- Built automatic watermark removal software using image processing techniques to speed up migration of old watermarked photos to new database
- Created a survey website in **Django**, deployed to **Heroku** to validate results

#### 2017-2018 - [eMAG](#) - “Come to the Olympiad!”, Targu-Mures- *Teacher*

- Worked as a teacher at an excellency circle, preparing high-school students for international contests by presenting advanced algorithms and data structures

#### 2017 - **CleverRestaurant** - *Mobile Developer*

- Developed a mobile **React Native** application to be used for reserving seats at restaurants and for receiving availability details and offers
- Integrated with **Google Maps API** and **Firebase noSQL** database

### Other Experience

#### 2018, 2019 - Scientific Committee, National Olympiad in Informatics- *Member*

- Created a competitive programming problem that was included in the final problem set
- Reviewed, checked and wrote code for programming problems created by fellow members

## Awards

- ICPC SEERC 2019 - Bucharest, Romania - 14th place out of **100 international** teams
- Silver medal at the National Olympiad in Informatics (ONI) in **2014** and **2017**.
- Bronze medal at the National Olympiad in Informatics (ONI) in **2016**.
- 1st place at ECN Sapientia International Programming Contest (**2013, 2014** and **2016**)

## Education

October 2017 - July 2021

**Universitatea Tehnica Cluj-Napoca**– *Bachelor's Degree in Computer Engineering*

## Skills

- Ability to choose and get up to speed **fast** with any language and technology that is the best for the job or task at hand
- Strong background in **algorithms and data structures**, with experience in **teaching** such concepts to university and high-school students
- Strong knowledge of OOP, REST, API design, Design patterns, Image processing, Browser automation, Functional Programming
- Technologies: **C/C++, OpenCV, OpenGL, Python, Multiprocessing, RabbitMQ, Django, Flask, Pillow, Pandas, JavaScript, NodeJs, Express, React, PostgreSQL, Heroku, AWS, Selenium, Puppeteer, MongoDB, Firebase**