Curriculum Vitae

Personal

Name	**Constantine Akritides**
Address	**75 Leman Street, London E1 8EY**
Phone number	**07775359184**
Email	**constantine.akritides@gmail.com**
LinkedIn	**www.linkedin.com/in/constantine-akritides**

Profile

Software engineering combines my passion for using logic to solve complex problems and my love of creativity and innovation. As an academic researcher with a BSc in Physics and MSc in Biomedical Engineering I have developed skills in analysis, data management and self-leadership. As a musician with diplomas in both piano and opera, I've learned to take a committed approach to the creative process and adapt to teamwork with spontaneity. As a graduate of Makers, I am now determined to combine these skills to deliver products with social and commercial impact within a motivated and goal-driven team.

Projects

Laetus
Cross-Platform Colour Detector Mobile Application developed in Flutter. It can be used by graphic or interior designers, artists, in marketing or possibly even by colour-blind people for detecting a large palette of colours either by capturing real-time camera pictures, or by uploading their own photos directly from their device.
Tech Stack: *Dart, Flutter, Flutter Testing*

BragBook
BragBook is a social media web application that allows users to connect with friends and share what is going on in their lives. Users can do this through creating posts, uploading a profile picture and adding multiple friends. BragBook also allows users to comment on their friend's post and respond via likes and various emojis.
Tech Stack: *Ruby/Rails, HTML/CSS (w/ Bootstrap), Travis CI, PostgreSQL, RSpec*

MakersBnB - The Empire
MakersBnB-The Empire is an online platform where users can create an account, post properties for rental, rent another user's property and all that for a given date on the calendar. The users can choose a property based on the price, the location, the host and the description.
Tech Stack: *Ruby, Sinatra, HTML/CSS, PostgreSQL, Travis CI, Bootstrap, RSpec*

Dating App
A dating app that enables a user to create a profile choosing her/his own profile pictures, to navigate through a list of other users and like their photos, send live messages to other users, and see who's online or not.
Tech Stack: *C#, .NET 5, ASP.NET Core, Angular (v. 11), Typescript, PostgreSQL (Deployment DB), SQLite (Development DB), Heroku, xUnit*

Chitter
An online platform where users can create accounts and post peeps (eq. tweets) that other users can see, and in case a user is tagged in a peep, she/he receives an email as notification.
Tech Stack: *JavaScript/TypeScript, Node.js, MongoDB, Express.js, Angular (v. 11), Jasmine*

Skills

Problem Solving | Teamwork | Leadership | Empathy | Creativity | Strategic Adaptability | Agile

Languages

English, Greek, French

Work experience

Oct 2018 - Jun 2019

Data Analyst & Research Assistant

EnveLab: Environmental Engineering Lab at the Aristotle University of Thessaloniki, Thessaloniki, Greece

This research was part of a larger project that looked at how exposure to certain environmental chemicals affects health. I was responsible for developing a computational pharmacokinetics model that calculated renal clearance and drug metabolism in the liver, using laboratory-derived data as input data.

Key Skills:

- **Strategic Adaptability:** Adapted quickly to working overtime and built swift rapport to collaborate with a team of two others with different working styles.
- **Communication:** Due to the multidisciplinary nature of the team, I had to communicate my ideas clearly enough and in abstract terms so that all members could follow.
- **Problem Solving:** I had to adapt and optimise the model's equations for a new type of chemical compound to comply with new information generated by the experimental results.
- **Critical Thinking:** The results of the model had to be re-interpreted following each trial. The end-result was a model that could predict drug clearance and metabolism for certain Polycyclic Aromatic Hydrocarbons.

Technical Skills: *Equation-oriented modelling using AcslX, Excel Spreadsheets, Python (data transformation, curve fitting)*

Oct 2016 - Dec 2017

Undergraduate Researcher

iGEM Greece 2017 at the Aristotle University of Thessaloniki, Thessaloniki, Greece

This project proposes a novel diagnostic and therapeutic tool in cancer research using genetically modified bacteria with programmable genetic circuits. I was responsible for building a computational model that determined the spatiotemporal concentration of AHL during Quorum Sensing, and for a fluid dynamics model that simulated the flow of chymus around an ascending colon adenocarcinoma.

Key Skills:

- **Resourcefulness and Creativity**: Combined own creativity and scientific knowledge to develop computational models ab initio due to the limited resources in literature, and managed to raise sufficient funds as a team without any external support.
- **Accountability**: Due to the high interconnectivity and interdependence between the team's sub-projects, I was accountable for my own work and its on-time delivery, as well as the overall quality of the work.
- **Teamwork & Communication**: Collaborated with all team members to raise funds, brainstorm ideas, reach out to the public, and implement the project. Having a physics background, I communicated my work and shared knowledge within a multidisciplinary team by simplifying concepts and avoiding technical language.
- **Perseverance**: Managed to successfully deliver my work and contribute to the team despite the long working hours, the technical challenges and the intense and unforgiving nature of the work.
- **Problem Solving**: Every task presented itself with multiple issues to resolve, and thus, I had to question the results of my work, reconsider my approach, identify potential flaws in it and critically analyse the results from my work.

Technical Skills: *Matlab, Excel Spreadsheets, ANSYS Fluent, Autodesk Inventor*

Sep 2015 - Sep 2016

High School Private Tutor

Self-employed, Thessaloniki, Greece

Teaching high school students enabled me to transfer and share my knowledge with them while questioning and reconsidering my own presumptions towards what I know. I was responsible for preparing and delivering study material based on the student's personal needs.

Key Skills:

- **Emotional Intelligence & Empathy**: Answering questions posed by students by considering each student's personality and background aiming at building rapport by creating a more conducive atmosphere.
- **Adaptability & Patience**: Adapting study material and teaching approach to the student's needs
- **Critical Thinking**: Deciding how theory should be delivered, what exercises should be solved, and what teaching techniques should be used.

Sep 2015 - Sep 2018

University Private Tutor

Self-employed, Thessaloniki, Greece

As an undergraduate student, I was teaching university-level subjects to fellow undergraduate students. This enabled me to consolidate my own knowledge, and to share it in a conducive learning environment. I was responsible for planning study material and extracting abstract points to build a conceptual model in order to convey to student more effectively.

Key Skills:

- **Growth Mindset**: Questioning and reconsidering my own knowledge and skills by revisiting course material with other students, and considered challenges and student feedback as awakening learning opportunities.
- **Problem Solving**: Applying the Feynman technique to break down problems and solve them by teaching the concepts to myself before attempting to share them.
- **Flexibility & Time Management**: Staying flexible and accommodating lessons in my schedule without compromising my own learning experience by planning my weekly tasks in advance.

Technical Skills: *LaTeX, Matlab*

Education and Qualifications

Oct 2020 - Jan 2021

Software Engineering Bootcamp

Makers Academy, London

- OOP, TDD, MVC, DDD, SOLID
- Agile Methodologies, Software Craftsmanship
- HTML/CSS, JavaScript, Jasmine, Node.js, Angular, Express, MongoDB
- Ruby, Sinatra, Rails, RSpec, PostgreSQL

Sep 2019 - Sep 2020

Biomedical Engineering (MSc)

Imperial College London, London

- Specialised in Biomaterials & Tissue Engineering
- Graduated with Merit
- MSc Project (Thesis) at Dr. Celiz Lab: *Intratumoural Multiplexed Drug Wafers for Personalised Chemotherapy*
- Member of the Imperial College Choir

Sep 2013 - Oct 2018

Physics (BSc Hons)

Aristotle University of Thessaloniki, Thessaloniki, Greece

- Specialised in Theoretical Physics & Biophysics
- Graduated in Top 5% of class
- Awarded "Award of Scientific Excellence" by the Dean of the Faculty of Sciences

Oct 2016 - Jun 2019

National Artist Diploma in Lyrical Singing

New Conservatory Of Thessaloniki, Thessaloniki, Greece

- Graduated with a GPA of 10 out of 10 ("Excellent")
- Award of Exceptional Artistic Performance (Hellenic Ministry of Culture)
- Tenor Soloist in the first panhellenic performance of *Camille Saint-Saëns, Messe de Requiem op. 54*

Sep 2007 - Jun 2016

National Artist Diploma in Classical Piano

Conservatoire Of Northern Greece, Thessaloniki, Greece

Pianist in the Conservatory's Symphonic Orchestra and Chamber Music groups

Awards

- 06/2019: Award of Artistic Excellence awarded by the Hellenic Ministry of Culture as part of the Artist Diploma in Opera.
- 23/11/2018: Award of Scientific Excellence from the Dean of the Faculty of Sciences (Aristotle University of Thessaloniki)
- 15/01/2018: Gold Medal in the iGEM (International Genetically Engineered Machine) 2017

Interests

Classical Piano & Singing, Foreign Language Learning (Italian, German, Russian, Spanish, Swedish), Tennis, Reading Books, Playing chess and solving puzzles, Travelling