

Victoria Petrova

www.linkedin.com/in/petrova-v
<https://github.com/vickipetrova>

Employment

Software Engineer Intern

Uber

June 2023 - December 2023

- Utilized Java in the development of the E-Invoicing (fiscalization) service for 20 countries as a backend intern on the core services **Fintech** - Tax & Invoicing team.
- Led the "Autohealing" feature project using the Waterfall framework, streamlining a previously manual process resulting in the automatic backfilling of 20,000 e-invoices daily.** This included cross-team data collection, authoring an engineering review document, proposing three viable strategies, and leading team discussions to adopt Kafka as the preferred solution.

Lead Teacher Assistant

Minerva University

April 2022 - April 2023

- Managed a team in a **project management role to create and teach a Computer Science course**: Introduction to Python to a total of 360 incoming students, resulting in a 40% increased student pass rate in their final exam.
- Supervised 8 other TAs**, facilitating team coordination, communication, and project planning.
- Developed a comprehensive report evaluating course effectiveness by analyzing survey data using **statistical methods**, including correlation analysis, linear regression, and parameter estimation. Leveraged these insights to recommend data-driven curriculum improvements, enhancing overall course performance and student satisfaction.

iOS Developer Intern

Good Snooze

January 2022 - July 2022

- Co-built Posture Pal: **an iOS app featured on the App Store with 500,000+ downloads.**
- Used the Agile framework to create prototypes, conduct user research with 240 testers, and implement 2 new features based on client's feedback.

Education

Cambridge, UK

University of Cambridge

October 2024 - June 2025

- Masters in Management at Judge Business School. GPA: Distinction
- Relevant Coursework: Business Analytics, Marketing, Accounting, Strategic Valuation, Operations Management
- Advised Lloyds Bank on high-performance engineering in the age of AI, recommending prioritized tools across short, medium, and long-term horizons using impact vs. implementation complexity to guide adoption.

San Francisco, California

Minerva University

September 2020 - May 2024

- Bachelor of Science (BS) in Computer Science and AI with a minor in Economics. GPA: 3.93
- Relevant coursework: Statistics, Software Development, Modeling and Analysis of Complex Systems, Econometrics, Distributed Systems, Artificial Intelligence Algorithms.

Projects

- Co-authored an econometrics report on the **Synthetic Control Analysis** of the Impact of the 1994 French Parental Leave Reform on the Total Fertility Rate, compiling and analyzing a custom dataset to assess causal effects. Applied the Synthetic Control Method to estimate a 12.6% increase in fertility rate by 2001, demonstrating policy-driven impacts on demographic trends.
- GUaiTAR**: selected by Apple as a Distinguished Winner of their Swift Student Challenge – an iOS app to learn guitar by tracking hand movements through the camera and providing real-time feedback powered by AI.
- Grocery Store Model**: Used statistical methods (queuing theory) to find the optimal number of cashiers at a grocery store and optimize profit.
- Days Since**: Independently created an iOS app tracking the number of days since a life event with **over 30,000 downloads**. Utilized the Agile framework to create efficient user-feedback loops that continuously involve the client in the problem research and solution.

Accomplishments and Activities

- Clubs: University of Cambridge (UoC) King's Entrepreneurship Lab, UoC Consulting Society, UoC Tennis Team.
- Graduated with A+ in CS152 (AI) and CS162 (Software development).
- Selected as 1 of 100 participants in Apple's invitation-only "Create Incredible Apps" workshop in April 2022.