Mykola Nechyporuk

UK Citizen

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EDUCATION

University of Bristol — Bristol, UK
BSc (Hons) Computer Science — *2019 - 2022*

SKILLS

Languages Python, C, Go / Golang, C#, JavaScript, Java
Technologies ReactJS, Vue.js, WPF, Git
Fluent in English, Ukrainian, Russian

WORK EXPERIENCE

Optiver — Amsterdam, NL
Software Engineer Intern — *Jun. 2021 - Aug. 2021*
- Implemented optimised C# WPF GUI for viewing 2M+ data feeds
- Took ownership of design and technical decisions, consulting and communicating directly with end users

University of Bristol — Bristol, UK
Teaching Assistant — *Oct. 2020 - May. 2021*
- Taught Imperative Programming, Mathematics for Computer Science A, and Algorithms I

Commerzbank AG — London, UK
Software Engineering Intern — *Jun. 2020 - Sep. 2020*
- Developed React frontend for application that retrieves, views and edits nested bond information
- Developed full-stack log monitor using React & Go for at-a-glance performance/health analysis
- Used WebSockets & React-vis to display graphs of real-time data streams
- Led to wider adoption of cloud technologies throughout bank as a result of presentations, proof-of-concept work and creation of documentation & tutorials as part of my team

Oxford Economics — Oxford, UK
Software Development Intern — *Jul. 2018 - Aug. 2018*
- Developed & analyzed use cases for chatbot that queried APIs and presented economic reports in chat
- Implemented spell check functionality by integrating a search engine, reducing invalid requests

LEADERSHIP EXPERIENCE

University of Bristol Computer Science Society — Bristol, UK
President — *Jun. 2020 - May 2021*
- Led 15-strong committee to organize 20+ events with up to 100+ attendees
- Initiated collaboration with EWB UCL and the University of Cambridge Competitive Programming Society

COURSEWORK

Game of Life
Distributed and parallelized Game of Life
- Implemented engine for many to many relationship between remote clients and Game of Life processes, displaying live progress, allowing pausing and saving progress on clients
- Message passing between worker nodes, each processing a horizontal strip of the game of life world
- Memory sharing between threads, each processing a vertical strip of the worker's horizontal strip
- Achieved consistency through use of golang channels, connecting workers on AWS instances using rpc library

Unknown Signal
Identifying function from noisy data points
- Used linear regression to test possible functions, with k-fold cross validation to account for overfitting

ACHIEVEMENTS

Bris Hack 20 Environmental Category Winning Team
British Mathematical Olympiad 2018-19 Merit (top 1000 UK)