

# Valeriy Dutt

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## EDUCATION

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### BSc (Hons) Computer Science with Placement Year

Sept. 2017 – June 2021

*University of Surrey*

*Guildford, England*

#### First Class Honours: 79%

Dissertation on Self-Supervised Algorithms and their Application in detecting Diabetic Retinopathy (78%);  
Deep Learning and Advanced AI (82%); Practical Business Analytics (77%); Computer Security (88%).

## EXPERIENCE

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### Placement Training/Coaching Mentor

Nov. 2020 – May 2021

*University of Surrey*

- Prepared and guided a small group of students for their placement year opportunities
- Shared my experience and helped them through the application process

### Lab Demonstrator

Sept. 2020 – May 2021

*University of Surrey*

- Supported the delivery of multiple modules at the University of Surrey, including:  
Advanced Algorithms and Information Retrieval
- Helped a cohort of 2<sup>nd</sup> Year Computer Science students with practical lab sessions

### Software Developer (Placement Year)

July 2019 – July 2020

*IBM*

*IBM Hursley, England*

- Worked in the Dev Team of Product Transformation Centre (PTC), Hursley
- Helped design, develop and support multiple tools for IBM's Open Source Clearance
- Worked on a wide spread of tools and software architectures, from back-end Java and micro-services in Angular to front-end application in ReactJS
- Experience maintaining and updating Dockerized applications
- Resolved multiple work-critical issues that re-established PTC's normal function
- Helped design and develop Open Source Analysis tool, a new and more efficient front-end for Open Source Clearance
- Practiced working in Agile and Test-Driven Development processes

## PROJECTS

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### Natural Language Processing | *Python, Flask, AWS, NGINX*

March 2021 - May 2021

- Developed a Python Flask Web App that would predict movie genre based on a plot summary
- Hosted on an Amazon's EC2 Instance, built with a fully functional CI/CD pipeline

### Practical Business Analytics | *R, LaTeX*

Sept. 2020 – Dec. 2020

- Led a university group project on practical applications of AI and machine learning
- Participated in the development of an R CLI program that predicts prices for used cars
- Worked through all the stages of data exploration, cleaning and processing
- Produced an industry-quality report, based on CRISP-DM methodology and agile development

### SmartProp | *Java, PostgreSQL, PHP*

June 2018 – Aug. 2020

- Helped develop an ERP web software based on iDempiere, to help business owners manage property
- Partook in extending Financial Accounting functionality of the webapp, utilizing the MVC design pattern
- Implemented 2FA Google Authentication on login for extra security
- Implemented an SMS notification API for message reminders

### SMAART | *Java, ReactJS, Gradle*

July 2019 – July 2020

- Developed a Java application with ReactJS and Electron front-end based on a consulting tool by a former IBMer
- Worked alongside UI/UX team to improve user experience
- Maintained and extended the tool based on the feedback from IBM consultants

### GitFit | *Java, Android Studio*

Feb. 2019 – May 2019

- Developed an Android mobile application to track fitness goals, count steps and measure hiking routes
- Designed and developed the program alongside a university group
- Extended the program with ability to challenge friends to complete workout goals

## PERSONAL SKILLS

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***Technical skills (in order of proficiency):***

**Languages:** Java, Python, R, C/C++, PHP, JavaScript

**Developer Tools:** Git, Docker, Kubernetes, Gradle, Maven, Jenkins, TravisCI

**Frameworks:** React, Node.js, JUnit, Mocha, Jasmine

Comfortable with Linux, Bash Scripting

***Soft Skills:***

**Languages:** Fluent in English, Russian, French

## EXTRACURRICULAR ACTIVITIES

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**Archery Club:** Represented University of Surrey Team in barebow competitions

**Investment & Trading:** Exploring algorithmic trading in spare time (MQL5, Python)

**Maker Space:** General interest in IoT and low-level electronics, currently working on building an 8-bit computer from basic components