

Dominic Palmer

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Mobile: *On request*
Location: Brighton, UK
Age: 26

SUMMARY

An Imperial College Applied Mathematics MSc graduate and passionate software engineer, with 3 years industry experience spanning full SDLC software development, data science, statistical programming and machine learning for research and development.

LANGUAGES & LIBRARIES

- C# | C++ | Python | Bash/Shell | SQL Server | JavaScript | HTML | CSS | SCSS | \LaTeX
- .NET Core | Dapper ORM | DbUp | Swagger/OpenAPI | RESTful MVC Web APIs | MSTest | xUnit
- Standard Template Library | GoogleTest | GNU Make | NumPy | Pandas | Matplotlib | scikit-learn

TOOLS & WORKFLOWS

- Git (CLI) | GitHub | Azure DevOps | Travis CI | Jira | Confluence | Rally | Trello | Slack
- VSCode | Neovim | Tmux | Zsh | Visual Studio | JupyterLab | TeXstudio | Linux | Windows
- Agile | Scrum | Waterfall | CI/CD | Unit Testing | TDD | International teamwork (UK, USA, Ireland)

EXPERIENCE

Applied Systems

Brighton, UK; Belfast, NI (remote)

Junior Software Engineer

Nov. 2020 – Present

- **SchemeRater:** In a team of two, we developed and deployed a set of microservices that calculate insurance premiums in real time according to pricing models specified by insurers. (C#, .NET Core, SQL Server)
- **Applied RDS Web Portal:** Created an internal web portal that provides management functionality for insurance document templates. (ASP.NET Core, JavaScript, HTML, CSS, jQuery, Bootstrap)
- **Applied Relay:** Regular commits made toward Applied Belfast's flagship insurance pricing and management software, plus satellite web and desktop applications. (C#, .NET, ASP.NET, WinForms)

First Central Insurance & Technology Group

Haywards Heath, UK

Statistical Analyst/Data Scientist

Jan. 2019 – Oct. 2020

- **Web scraping:** Developed a collection of web scrapers to efficiently scrape, parse and merge large volumes of quote XMLs. (Python, xmldict, json, BeautifulSoup)
- **Machine learning:** Built aggregator classification and renewal propensity models, plus dimensionality reduction and clustering notebooks using principal component analysis. (Python, Pandas, NumPy, scikit-learn, Matplotlib)
- **Rating engine development:** Greenfield development of an in-house insurance pricing engine written in Willis Towers Watson's proprietary scripting language, plus a GBM-based model optimisation framework.

Pre-2019

Brighton, UK

Bartender, Mitchells & Butlers; Statistical Analyst, InterAnalysis

Sep. 2017 – Apr. 2018, Jul. 2016 – Aug. 2016

EDUCATION

Imperial College London

London, UK

Master of Science in Applied Mathematics; Distinction (76%)

Oct. 2016 – Oct. 2018

- **Research project:** Developed a genetic algorithm in C++ that simulates tumour growth in two and three dimensional space, based on a mathematical model of evolutionary ecology (88%).

University of Sussex

Brighton, UK

Bachelor of Science in Mathematics; First Class Honours (89%)

Sep. 2013 – May 2016

Cardinal Newman Sixth Form College

Brighton, UK

A Levels; Mathematics (A), Physics (A), Chemistry (B), plus the Extended Project (A)*

2011 – 2013

HarvardX: Harvard University's Online Course Facility

Online

CS50 Introduction to Computer Science, Verified Track; Distinction (93%)

Sep. 2017 – Jul. 2018

- **Coverage:** A 12 week course covering data structures and algorithms, software development in C, plus web development using Python (Flask), JavaScript, HTML and CSS.