

Patrick Kennedy

32 St. John's Well Way, Kilmainham, Dublin 8 | 087 6054516

<https://www.patrickjkennedy.io> | patrickken@gmail.com | <https://github.com/patrickjkennedy> |
<https://www.linkedin.com/in/patrick-kennedy-4927237b/>

SUMMARY

Software engineer skilled in backend development and DevOps, seeking exciting new challenges. Experience with Spring and Flask development frameworks. Skilled in Docker, Kubernetes and Helm. In addition to my technical skills, I have multiple years of experience in project management, remote working, and content production.

EDUCATION

H.Dip. Computer Science | 1st (GPA:3.81)

University College Dublin | 2019

Relevant Modules: Web Application Development, Operating Systems, OOP Python, Data Structures & Algorithms, Networks and Internet Systems, Java Programming, Software Engineering, Relational Databases, Data Analysis, Computer Architecture and Organization

M.Sc. Science Media Production | Merit

Imperial College London | 2014

B.Sc. (Hons) Physics | 2.1

University College Cork | 2011

Relevant Modules: C/C++ Programming with Applications, Advanced Computational Physics, Internet Computing and Website Design, Mathematical Software, Computer Modelling and Numerical Techniques

Final Year Project: Wrote a computational model for the A1g phonon mode of photo-excited bismuth using Matlab. Received a 1st for this project.

ONLINE COURSES

Android Basics Nanodegree

Udacity | 2017

Android Developer Nanodegree

Udacity | 2018

PROFESSIONAL EXPERIENCE

Synchronoss Technologies | Software Engineer

Dublin, Ireland | June 2019 - Present

- Working on Java/Spring Development, creating new features, fixing bugs, and writing unit & functional tests.
- Creating REST APIs using Spring MVC and documenting with Swagger UI.
- Creating CI/CD pipelines using Helm, Bamboo, & Kubernetes.

O'Reilly Media | Online Event Producer

Limerick, Ireland | May 2017 - August 2018

- Produced over 40 online webinars for a global audience every month.
- Worked with presenters to create and debug Jupyter notebooks, Docker images, and Linux containers for production deployment using Kubernetes and Google Cloud Platform.

O'Reilly Media | Junior Project Manager

Sebastopol, California, USA | September 2015 – May 2017

- Defined and scoped product requirements & acceptance criteria for new feature development.
- Worked cross-functionally between business owners and technology teams, writing user stories and working closely with the Product Manager to prioritise their development.
- Wrote automation code for publishing of O'Reilly's 'Free Reports', decreasing their production time by 66%. This was written in Python.

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Murex | Financial Software Consultant

Dublin, Ireland | August 2011 – August 2013

- Provided application support and debugged production issues for 3 medium-sized international banks using our risk management software, MLC.

TECHNICAL SKILLS

Programming Languages

Java, SQL, CQL, Python, Bash, HTML, CSS, JavaScript, Groovy

Tools

IntelliJ, Git, Docker, Linux, JIRA, Jupyter, Kubernetes, Gradle, Cassandra

SOFT SKILLS

Teamwork: I've worked in agile software development teams, performing the role of scrum master, project manager and QA. This taught me how to work well with my technical teammates, while creating value for business stakeholders.

Communication: In my roles to date I've worked with both technical and business specialists, oftentimes bridging the gulf in understanding between both. I also hold a M.Sc. in Science Media Production from the Science Communication Unit at Imperial College London.

Entrepreneurship: I expanded O'Reilly Media's online webinar offerings by being the only team member based outside of North America.

PERSONAL PROJECTS

Bargy | <https://github.com/patrickjkennedy/Bargy>

- An Android app dedicated to preserving endangered and minority languages. The first chosen is Yola, a dialect of English once spoken in the Forth and Bargy region of Co. Wexford.
- The backend is supplied by Firebase, both as a hosted JSON file and via the Firebase Realtime database.

BQL | <https://github.com/patrickjkennedy/bql>

- A simple relational database system implemented using Bash.
- Allows for multiple concurrent users through the use of semaphores.

Brexit News | <https://github.com/patrickjkennedy/BrexitNews>

- An Android app which displays the latest Brexit-related news to the user.
- Uses The Guardian's API to search for Brexit-related topics.

GROUP PROJECTS

Dublin Bikes | https://github.com/patrickjkennedy/dublin_bikes

- A Web application that displays real-time and predicted occupancy data for Dublin Bikes.
- Uses the Google Maps, JCDecaux and OpenWeatherMap APIs.
- Python (Flask) backend with JQuery and vanilla JavaScript frontend.
- Web server hosted on EC2 and using RDS for the application database.
- Uses machine-learning models to predict bike availability per station, using time and weather as input features.