

Karl Pilkington

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Programming languages: C#, Python, Java, Javascript

WORK EXPERIENCE

Lead Software Engineer at Partik, San Jose (CA)

Jan 2022 - Present

Partik is one of California's leading digitized healthcare companies

- Increased server response time by 30% by implementing machine learning (**Python**)
- Led performance improvement of customer-facing application, decreased response times by 60% (**Java**)
- Re-worked the application's API to conform to REST patterns, enforced TDD with 90% coverage (**Java**)
- Contributed to code reviews, mentoring junior developers, and fostering a culture of high standards

Software engineer at LifeEnhance, Chicago (IL)

Sep 2020 - Jan 2022

LifeEnhance is a medical software startup

- Achieved enhancement of a framework in C#.NET for automated testing on the company's medical platform. Assemblies and services using WCF and multithreading which communicates between components like 3D Volume Viewers, Image reconstructions etc. (**C#**)
- Led the migration of legacy codebase to a modern microservices architecture, reducing application downtime by 30% and improving scalability.

Junior Software engineer at Mr Freds, Manchester (UK)

Oct 2017 - July 2020

Laundry services app

- Developed automated testing scripts using JUnit, which improved test coverage by 25% (**Java**)
- Worked on integrating third-party APIs and libraries to extend product functionality and enhance UX.
- Collaborated with senior engineers to troubleshoot and debug complex software issues, ensuring smooth product launches.

EDUCATION

MS, Industrial Engineering, Georgia Institute of Technology,

Sep 2013 - Jun 2015

Earned a distinction (top 10%). Subjects included: lean and agile systems, supply chains, management.

BS, Mechanical Engineering, University of Manchester (UK)

Sep 2009 - Jun 2013

Graduated with 2:1. Subjects included: systems modelling, math, computing, physics.

LEADERSHIP & AWARDS

- **Under 30s Innovation Award, CrunchCode Conference 2022:** Recognized for a project that improved data compression rates in a resource-constrained environment.
- **Team Lead, Chicago Hackathon 2019:** Led a team of 4 engineers to 2nd place out of 35.

ADDITIONAL SKILLS & INTERESTS

Databases: Postgresql 9.2, MongoDB

Frameworks: Spring, Spring Boot, Angular, React

Operating Systems: Linux based, Ubuntu

Cloud Technologies: Azure Cloud Family, AWS Cloud Family

Tools: Microsoft Office, Omniture, SQL, Tableau.

Interests: Blockchain technology, Machine Learning, Open Source contribution