Charlotte Ralphs

Software Developer | .NET

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Education

2022

Master of Software Development

Victoria University of Wellington
With Distinction (3.8 GPA)

2015

Bachelor of Science - Chemistry

University of Auckland (3.6 GPA)

Skills

Highly Proficient

Languages
- C#
- Visual Basic
- JavaScript
- SQL
- ASP.NET
- React

Tools
- Visual Studio
- Microsoft SQL Server
- Azure Dev Ops
- Node.js
- Jira
- Postman/Insomnia
- Rabbit MQ

Personal Projects

Projects I have done out of interest and for learning new technologies.

- Fitness training/weather App - Utilising a weather API and database. (Flutter, Dart)
- Game Score App - tracks scores, configurable based on the game. (Flutter, Dart)
- Travel Blog - I developed this with a React framework and hosted on Netlify. (JavaScript, MarkDown, CSS, Node.js, Html)

Experience

May 2024 - Now, BC Remote
Freelance

Software Developer

Freelance development work to several businesses, WordPress sites, plugins and a React Native application.

Key Tasks
- Developed and maintained WordPress sites for small businesses.
- Developed a WordPress plugin side-scroller game for marketing content.
- Currently developing a React Native application to run a Game Show experience. Includes a locally hosted server, SQLite database, animations, video and audio.

Key Achievements
- Successfully delivered sites on time and to specifications.

2022 - May 2024, NZ Remote
FNZ

Analyst Software Developer

Developed and maintained complex .NET wealth management platforms for multiple large clients such as CFS and Vanguard. Worked as a full stack developer on both legacy and core code. Main technologies used are Microsoft .NET, React, SQL Server, Azure DevOps, RabbitMQ, Postman/Insomnia.

Key Tasks
- Develop new features, working with consultants, testers and other developers to find robust solutions.
- Testing new features and defect fixes thoroughly, I had a very low defect density (defects resulting from my code changes).
- Writing comprehensive unit tests and developer notes to ensure quality builds and maintainable code.
- Diagnosing and resolving defects - consistently meeting the 1 to 2 defect a day quota.
- Mentoring graduates, I volunteered as I am passionate about helping others and giving them the tools to succeed.
- Subject matter expert in fees, reports and model portfolios, I was a point of call for these areas.
- Increasing performance through CRUD optimisation - multiple instances with performance increases of +2 minutes to <30 seconds.

Key Achievements
- Maintained Agile velocity in the top 20% of total developers in the APAC region.
- Building the new CFS Edge platform (fees, onboarding and reports), this was an ambitious project and was successfully launched on 1 August 2023 and recorded A$1 billion in Funds Under Administration (FUA) in just 200 business days.
- Built a new order type on Vanguard's platform, this included multiple APIs, database changes and integration with third party exchanges.
- Built international equities trading on model portfolios on the CFS platform. This was complex and spanned multiple products, this feature was released on time and with relatively low production defects.

Interests

- **Outdoors** - I'm a keen mountain biker, surfer and climber.
- **Music** - I love to sing and play the guitar.
- **Baking and Brewing** - I enjoy trying new recipes and sharing them with others.
- **IT help** - I have assisted several people by setting up WordPress websites for their small businesses.
- **Animals** - I've volunteered at the SPCA and enjoy spending time with animals in general.

Experience Cont

2019 - 2020
New Plymouth District Council
Trade Waste Sampling Officer

Key Tasks
- Manage compliance of the Districts trade waste customers following the Bylaw.

Key Achievements
- Updated quality and training material for the Trade Waste department, this update was used as an example to other departments.
- Successfully completed the quarterly invoicing.

2017 - 2019
SGS
Chemist and Branch Support Assistant

Key Tasks
- Write testing methods, laboratory procedures and training material.
- Laboratory software manager.
- Training and mentoring new laboratory staff.

Key Achievements
- Developed a new method for quantifying hydrocarbons in water analysis, this passed a rigorous audit with IANZ.
- Developed new interactive reports that could more easily be filled out, this saved a lot of time for less technology capable staff.
- Updated the statistical method for acceptable limits and created new interactive worksheets to allow these to be quickly determined.

2016 - 2017
DOW Agroscience
Research Chemist

Key Tasks
- Conduct laboratory studies, this included writing study plans, reports and carrying out the analysis.
- Assist with method development and validation.

Key Achievements
- Record number of reports being issued by the laboratory in a year.
- Improved packaging traceability for the laboratory.
- Noted an issue with waste management and developed a system to track and ensure timely disposal of laboratory samples and reagents.

2015-2016 and 2014-2015 (6 months total)
Methanex
Laboratory Assistant

Key Tasks
- Complete the Annual Ground Water Bore Survey.
- Carry out method ruggedness assessments on a number of testing methods.
- Undertake a corrosion of metals in methanol research project.

Key Achievements
- Successfully completed the corrosion of metals in methanol study and reported the results to the Methanex leadership team.