

# Ning Xie

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## Professional Summary

I am an experienced software engineer with a solid background in computer science and seven years in the tech industry. I am dedicated to crafting elegant solutions, writing clean code, exploring innovative approaches and learning new skills. Throughout my career, I have built a strong focus on frontend development and backend solution design, as well as the ability to collaborate effectively with diverse stakeholders and fellow engineers in agile environments. Currently I am exploring GenAI topics as well. Passionate about frontend development and technology, I am eager to leverage my expertise and enthusiasm in my next role within the innovation industry.

## Technical Skills

UI/UX	▪ Requirements Analysis, Design Thinking, Figma, Tailwindcss, User Testing
Coding	▪ Java, Spring Boot, REST API, GraphQL, React, JavaScript, TypeScript, CSS, HTML5, Python
Database	▪ SQL, NoSQL, Spring Data, SPARQL, RDF, OWL, Knowledge Graph
DevOps	▪ Maven, Gradle, Docker, GitHub Actions, Azure, Google Cloud, Kubernetes, CI/CD

## Experience

09.2022 – 06.2024 | **Senior Software Engineer**, Synpulse8/Synpulse Schweiz AG, Zürich

- Delivered our proprietary Avaloq Wealth Backend REST API and GraphQL services for the [OpenWealth](#) API standards written in Java, OpenAPI and Spring Integration Framework
- Designed and implemented our proprietary React frontend component library within 4 months
- Become advocate and leader of good software development practices and processes to improve collaboration, increase efficiency and quality of our products in every team I am a part of

06.2021 – 12.2021 | **Web Developer (part time 40%)**, Computational Evolution Group, ETH, Zürich

- Part time job during my master study to work on data visualization on the [CoV-Spectrum](#) website, an tool to help scientists track and identify the variants of coronavirus, using React, TypeScript and Tailwind

09.2018 – 08.2019 | **Senior Software Engineer**, Wellington Management Company, *Boston*

04.2015 – 08.2018 | **Software Engineer**, Wellington Management Company, *Boston*

- Developed and maintained the complex backend services for the proprietary trading platform written in Java and Spring Boot, with deployment and quarterly release responsibilities as a core developer
- Developed a suite of 7 web applications written in Angular, React, JavaScript and Spring Boot, which are used as system health monitors and investment data platform for the equity trading team
- Migrated web applications and infrastructure to cloud-based on Amazon Web Services

07.2014 – 09.2014 | **Game Developer (internship)**, MassDiGI, Becker College, *Worcester, USA*

- Programmed C# scripts for gameplay logic and UI for the mobile tower-defense game named “Midnight Terrors” and released the game to [iOS](#) app store under MassDiGI

## Certificates

UI/UX	<a href="#">Foundations of User Experience (UX) Design (Google)</a>
Front-end	<a href="#">Modern React with Redux (Udemy)</a>

## Education

09.2020 – 12.2022	<b>Master of Science in Informatics</b> , Summa Cum Laude, University of Zürich, <i>Switzerland</i> Major: People-Oriented Computing                      Minor: Informatics GPA: 5.5 / 6.0 Published Thesis: <a href="#">Federated Trust: A solution for trustworthy federated learning</a>
2011 - 2015	<b>Bachelor in Computer Science</b> , Mount Holyoke College, <i>Massachusetts, USA</i> Major: Computer Science                                      Minor: Mathematics GPA: 3.6 / 4.0 Semester abroad: Aquincum Institute of Technology, <i>Budapest, Hungary</i>

## Academic Projects Highlight (master's level)

Fall 2021	<a href="#">Semantic Annotation Framework</a> (Master Project), DDIS Group, University of Zürich <ul style="list-style-type: none"><li>Designed and developed a Chrome extension to annotate the web and create RDF data for arguments, hypotheses and data science workflows using semantic web technologies</li></ul>
Fall 2021	<a href="#">Movie Chatbot</a> , Advanced Topics in AI Module, University of Zürich <ul style="list-style-type: none"><li>Designed and implemented a chatbot to answer movie related questions using Python, sparql and a knowledge graph</li></ul>
Spring 2021	<a href="#">AScout</a> , Advanced Software Engineering Module, University of Zürich <ul style="list-style-type: none"><li>Designed and developed a web application for vacation rental neighborhood scouting using Airbnb open dataset, Google Cloud Maps API, React, Java, Spring, MongoDB</li></ul>

## Language skills

Chinese	Native Speaker
English	Proficient
German	Basic
Korean	Basic

## Interests

Dancing	2nd place at 2014 KPOP World Festival, NYC
Travelling	Visited 22 countries and counting
Skiing	Ventured onto red slopes this past season
Running	Ran in SOLA-Stafette 2022 for IFI Runners team