

Ning Xie

Personal Details

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Profile and Objective

I am an experienced software engineer in constant pursuit of elegant solutions, clean code and innovative approaches. With a solid background in computer science and seven years in the FinTech industry, I have gained the business knowhow, solution design skills and the ability to effectively collaborate with diverse stakeholders and fellow software engineers in an agile working environment. I look forward to apply my past experience, my passion in software development and my interest in AI in the next professional role within the digital innovation industry.

Professional Experience

Sep 2022 – present	Senior Software Engineer (full time) , Synpulse8/Synpulse Schweiz AG, Zürich, <i>Switzerland</i> <ul style="list-style-type: none">Core backend developer for our proprietary Wealth Backend integration services for the OpenWealth API standards written in Java, OpenAPI and Spring Integration FrameworkCore frontend developer for the Relationship Manager Advisory Dashboard (rebranded as Wealth Cockpit) web application written in React, TypeScript, Tailwindcss and JavaResearched and designed the architecture for our proprietary enterprise React frontend component library and implemented the solution within 4 monthsEstablished frontend standards across the whole group by integrating the component library as a basis for all our React frontend client projects
Jun – Dec 2021	Web Developer (part time 40%) , Computational Evolution Group, ETH, Zürich, <i>Switzerland</i> <ul style="list-style-type: none">Improved the design and features on the CoV-Spectrum website, an interactive visualization tool to track and identify the variants of coronavirus, using React, TypeScript and Tailwind
Sep 2019 – Aug 2020	Senior Software Engineer (full time) , Wellington Management Company, <i>Boston, USA</i> <ul style="list-style-type: none">Programed and maintained the complex backend services for the proprietary trading platform using Java, with deployment and quarterly release responsibilities as a core Java and DevOps engineer (promoted to senior in 2019)
Apr 2015 – Aug 2019	Software Engineer (full time) , Wellington Management Company, <i>Boston, USA</i> <ul style="list-style-type: none">Developed a suite of 7 web applications written in Angular, React, JavaScript and Spring BootMigrated web applications and infrastructure to cloud-based on Amazon Web ServicesEnsured the reliability of critical functions and services by resolving production level failure incidents as a member of the production support team
Summer 2014	Game Developer (intern) , MassDiGI, Becker College, <i>Worcester, USA</i> <ul style="list-style-type: none">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

Technical Skills

UI/UX	▪ Requirements Analysis, Prototyping, Figma, Material-UI, Tailwindcss
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, AWS, Google Cloud, Kubernetes, CI/CD

Certificates

UI/UX	Foundations of User Experience (UX) Design (Google)
Front-end	Modern React with Redux (Udemy)

Education

Sep 2020 – Dec 2022	Master of Science in Informatics , Summa Cum Laude, University of Zürich, <i>Switzerland</i> Major: People-Oriented Computing Minor: Informatics GPA: 5.5 / 6.0 Published Thesis: Federated Trust: A solution for trustworthy federated learning
2011 - 2015	Bachelor in Computer Science , 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	Semantic Annotation Framework (Master Project), DDIS Group, University of Zürich ▪ 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
Fall 2021	Movie Chatbot , Advanced Topics in AI Module, University of Zürich ▪ Designed and implemented a chatbot to answer movie related questions using Python, sparql and a knowledge graph
Spring 2021	AScout , Advanced Software Engineering Module, University of Zürich ▪ Designed and developed a web application for vacation rental neighborhood scouting using Airbnb open dataset, Google Cloud Maps API, React, Java, Spring, MongoDB

Language skills

Chinese	Native Speaker
English	Proficient
German	Basic
Korean	Basic

Interests

Dancing	2nd place at 2014 KPOP World Festival, NYC
Travelling	Visited 16 countries and counting
Skiing	Ventured onto red slopes this past season
Running	Ran in SOLA-Stafette 2022 for IFI Runners team