

# Ning Xie

## Personal Details

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## Profile

I am an experienced full-stack software engineer who constantly seeks out innovative solutions to everyday problems. In my five years in the FinTech industry, I have honed my collaboration skills, software engineering practices and analytical thinking in a dynamic global working environment. Currently I am pursuing a master's degree at the University of Zurich with a focus on Human-Computer Interaction and Artificial Intelligence.

## Professional Experience

Jun – Dec 2021	<b>Web Developer (part time 40%)</b> , Computational Evolution Group, ETH, Zürich, <i>Switzerland</i> <ul style="list-style-type: none"><li>Improved the design and features on the CoV-Spectrum<sup>1</sup> website, an interactive visualization tool to track and identify the variants of SARS-CoV-2</li></ul>
Apr 2015 – Aug 2020	<b>Sr Software Engineer (full time)</b> , Wellington Management Company, <i>Boston, USA</i> <ul style="list-style-type: none"><li>Promoted to senior-level at the end of 2019</li><li>Delivered 2 to 3 digital solution projects per year on average, for improving the investment workflow on the proprietary trading platform for equity and fx trading</li><li>Collaborated in various scrum units of 3 to 4 within a 15-member cross-functional team consisting of business analysts, developers and QA testers via Agile framework</li><li>Successfully integrated as a core DevOps engineer to program and maintain the complex backend services written in Java, with deployment and quarterly release responsibilities</li><li>Developed a suite of 7 web applications written in Angular, React, JavaScript and Spring Boot</li><li>Took charge of migrating web applications and infrastructure to Amazon Web Services</li><li>Worked on revamping the performance monitoring pipeline using InfluxDB and Grafana</li><li>Participated in production support roll call to respond to emergent failure incidents</li></ul>
Summer 2014	<b>Game Developer (intern)</b> , MassDiGI, Becker College, <i>Worcester, USA</i> <ul style="list-style-type: none"><li>Programmed C# scripts for gameplay logic and UI for the mobile tower defense game named “Midnight Terrors” and released the game to <a href="#">iOS</a> app store under MassDiGI</li></ul>

## Technical Skills

UI/UX	Requirements Analysis, Prototyping, Figma, Bootstrap, Material-UI, Tailwind, Semantic-UI
Coding	Java, Spring Boot, REST API, Testing, React, JavaScript, ES6, TypeScript, Python, HTML5, CSS
Database	SQL, Oracle DB, MongoDB, Spring Data, SPARQL, RDF, OWL, Knowledge Graph
DevOps	Maven, Gradle, Docker, Git, Gitlab, AWS, Google Cloud, Kubernetes, Jenkins, CI/CD

<sup>1</sup> <https://cov-spectrum.org/>, <https://github.com/cevo-public/cov-spectrum-website>, <https://arxiv.org/abs/2106.08106>

## Certificates

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

## Education

Sep 2020 - present	<b>Master of Science in Informatics</b> , University of Zürich, Zürich, Switzerland Major: People-Oriented Computing      Minor: Informatics Thesis in progress: Quantifying the Trustworthiness Level of Federated Learning models <i>Courses highlight:</i> <ul style="list-style-type: none"><li>Advanced Topics in AI</li><li>Information Management</li><li>Advanced Software Engineering</li><li>Human-Computer Interaction</li><li>Requirements Engineering</li><li>Foundations of Data Science</li></ul>
2011 - 2015	<b>Bachelor of Arts in Computer Science</b> , Mount Holyoke College, Massachusetts, USA Major: Computer Science      Minor: Mathematics GPA: 3.6 / 4.0 Semester abroad: Aquincum Institute of Technology, Budapest, Hungary <i>Courses highlight:</i> <ul style="list-style-type: none"><li>Object-Oriented Programming</li><li>Algorithms and Data Structures</li><li>Software Design</li><li>User Interface Design</li></ul>

## 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="#">AScout</a> , Advanced Software Engineering Module, University of Zürich <ul style="list-style-type: none"><li>Designed and developed a web application for vacation neighbourhood scouting using Airbnb open dataset, Google Cloud Maps API, React, Java, Spring, MongoDB</li></ul>
Fall 2020	<a href="#">laundrIQ</a> , Human-Computer Interaction (HCI) Module, University of Zürich <ul style="list-style-type: none"><li>Designed a prototype for a mobile application intended for remote monitoring and booking of laundry slots in residential buildings with communal laundry facilities, using Figma</li></ul>

## Language skills

Chinese	Native Speaker
English	Proficient
German	Basic knowledge

## Interests

Dancing	2nd place at 2014 KPOP World Festival, NYC
Travelling	Visited 16 countries and counting
Skiing	Ventured onto red slopes this past season