

Ning Xie

Personal Details

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Profile

I am an experienced 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, web application development practices and analytical thinking in a dynamic global working environment. Currently I am pursuing a master's degree in People-Oriented Computing at the University of Zurich with a focus on Human-Computer Interaction and Artificial Intelligence. My thesis topic is on quantifying the trustworthiness level of federated machine learning models. I look forward to apply my past industry experience and improved knowledge from my master's studies in the next professional role within the digital innovation industry.

Professional Experience

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-Spectrumⁱ website, an interactive visualization tool to track and identify the variants of SARS-CoV-2, using React, TypeScript and Tailwind
Apr 2015 – Aug 2020	Sr Software Engineer (full time) , Wellington Management Company, <i>Boston, USA</i> <ul style="list-style-type: none">Improved investment workflow on the proprietary trading platform by delivering 2 to 3 digital solution projects per year on averageCollaborated 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 frameworkProgramed and maintained the complex backend services written in Java, with deployment and quarterly release responsibilities as a core DevOps engineer (promoted to senior in 2019)Developed a suite of 7 web applications written in Angular, React, JavaScript and Spring BootTransformed 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, 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

Certificates

UI/UX	Foundations of User Experience (UX) Design (Google)
Front-end	Modern React with Redux
	React (Basic) Skills Verification (Hackerrank)

Education

Sep 2020 – Dec 2022	Master of Science in Informatics , University of Zürich, <i>Zürich, Switzerland</i> 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">Advanced Topics in AIInformation ManagementAdvanced Software EngineeringHuman-Computer InteractionRequirements EngineeringFoundations of Data Science
2011 - 2015	Bachelor of Arts 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> <i>Courses highlight:</i> <ul style="list-style-type: none">Object-Oriented ProgrammingAlgorithms and Data StructuresSoftware DesignUser Interface Design

Academic Projects Highlight (master's level)

Fall 2021	Semantic Annotation Framework (Master Project), DDIS Group, University of Zürich <ul style="list-style-type: none">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-Domain Chatbot , Advanced Topics in AI Module, University of Zürich <ul style="list-style-type: none">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 <ul style="list-style-type: none">Designed and developed a web application for vacation neighbourhood scouting using Airbnb open dataset, Google Cloud Maps API, React, Java, Spring, MongoDB
Fall 2020	laundriQ , Human-Computer Interaction (HCI) Module, University of Zürich <ul style="list-style-type: none">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

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

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