# Jonathan Preiss

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## EDUCATION

**Computer Science and Engineering, B.S.** *Exp. Jun 2026*
*Santa Clara University* *Santa Clara, CA*
GPA: 3.57

Relevant Coursework: Abstract Data Types & Structures, Logic Design, Embedded Systems, Object-Oriented Programming & Advanced Data Structures, Calculus/Analytic Geometry III-IV, Discrete Math, Differential Equations

## PROFESSIONAL EXPERIENCE

**Full Stack Software Engineer** *Jul 2023 - Sep 2023*
*AIMS Team, LLC.* *Fremont, CA*
- Launch 5 from-scratch web solutions for 20+ water/wastewater districts using ASP.NET, JS, C#, and SQL
- Manage and store 1,000,000+ data records via queries/stored procedures in MS Access and MS SQL Server
- Enable mobile data entry/update through ArcGIS Online REST API Services by adding 8 trigger algorithms
- Formulate <1ms up/downstream pipe tracing algorithm in 10 datasets (10,000+ assets) utilizing SQL CTEs
- Establish CCTV import workflow of 1000+ .mp4 files using Dropbox & MS Task Scheduler running VBScript

**Web and Map Developer** *Jun 2021 - Aug 2022*
*AIMS Team, LLC.* *Fremont, CA*
- Engineered the firm's user-friendly homepage and 20+ client web pages UI/UX and integrated SEO utilities
- Collaborated and led 10+ web development meetings discussing marketing and web animation usage
- Utilized ArcMap 10.8 to manipulate and configure 1000+ data points (water pipes, hydrants, valves)
- Designed utility maps using techniques such as spatial joining, georeferencing, and unique symbology
- Incorporated interactive map UI with informational asset windows, allowing for multifaceted data entry

## PROJECTS

**Capital Insights (INRIX Hack 1st Place)** *Nov 2023*
- Built a platform evaluating retail listing quality, comparing price & traffic visit data via statistical algorithm
- Webscraped property data w/ Puppeteer JS and used 4 APIs (INRIX, Geocoder/Maps) in Vue & Node.js
- Presented a live demo at INRIX Hack 2023, winning 1st place (43 teams, 304 competitors) Devpost | Github

**Food Review Social Media Platform** *Apr 2023 - May 2023*
- Hosted local XAMPP MySQL server with 15+ tables comprising user info, food ratings, and record logs
- Instituted a login system, food-rating interface, and dynamic scoring leaderboard with PHP, HTML, and CSS
- Encrypted user passwords using JS hashing functions to keep 50+ user accounts secure in the database

**Top-Down Dungeon Game** *Dec 2022 - Jan 2023*
- Developed a 2D top-down dungeon crawler game using Unity Development Environment and C# scripts
- Constructed an immersive game map with 30+ unique tiles and an assortment of enemies and equipment
- Rendered 50+ unique character, object, and map animations, activating depending on game conditions

## CERTIFICATIONS

- Professional Communications Certification, Business Office Technology Certification, Personal Finance Literacy Certification, Certificate of Merit: Piano - Level Advanced, HS Diploma in Social Music

## SKILLS

- Spoken Languages: English (Native), Mandarin Chinese (Intermediate)
- Programming Languages: Python, JS (Vue, Node, Puppeteer), PHP, C/C++, C#, Java, SQL, HTML, ASP.NET, CSS
- Environments: MS SQL Server, MS Access, ArcMap 10.8, ArcGIS Online, Unity, Apache XAMPP, VS Code

## INTERESTS

- Alpha Kappa Psi, Taiwanese Student Association, DECA, Weightlifting, Tennis, Volleyball, Formula 1, Piano