# James Spillmann

Software Engineer (On Site) | New York, NY 10009
jjspill@umich.edu | (303) 827-9477
linkedin.com/in/james-spillmann

## Technical Skills

**Languages:** Python, C++, C, JavaScript, Java, HTML, CSS, Oracle PL/SQL, MongoDB, YAML
**Services:** Git, Docker, Jira, Bitbucket, AWS, Heroku, WordPress, SolidWorks
**Operating Systems**: macOS, Linux, Windows 11/10/8,
**GitHub:** https://github.com/jjspill

## Professional Experience

**Software Engineer, SPACInsider** *Sept. 2023 – Present*

- Led the design and development of a Python-based, keyword-filtered RSS Feed Aggregator using XMLPullParser for memory efficient parsing, integrated with Airtable for dynamic configurations, producing up-to-date news feeds for customers
- Deployed using AWS EC2, S3, and DynamoDB for enhanced scalability, parallel processing, and robust data management
- Revamped 60+ repos with concise, instructive READMEs, detailing deployment, run guidelines, and key design insights

**Software Engineer, Solidigm** *Jan. 2022 – June 2023*

- Engineered Python scripts for test conversion, aiding Intel-to-Solidigm transition, saving 30+ labor hours
- Assisted in the migration of six programs, including commit tracking and smoke testing, contributing to the successful transition of 4,000+ tests within 5 days thus enabling a swift transition for senior engineers; recognized as a role-player
- Conducted testing on non-Intel SSDs, identifying over 200 tests involving non-NVM Express commands, and documented necessary modifications to ensure future compatibility

**Firmware Validation Engineer, Intel** *June 2021 – Dec. 2021*

- Expedited YAML generation by learning Tkinter to develop GUIs reducing test initiation time by over 50%
- Supervised ownership of SSD client pools and maintained good health of test drives, creating a more organized continuous validation testing environment, increasing the number of hosts available, and total tests run
- Leveraged Intel's Firmware Automation System Test (FAST) software to conduct validation tests, revealing test and firmware errors enabling efficient triage and debug processes in Jira

## Projects

**MovieMagnet** *Individual Project*

- Developed a dynamic movie recommendation engine using React and Node.js
- Built a robust backend, utilizing advanced asynchronous programming techniques for data aggregation and filtering from TMDb API, enhanced by OpenAI's GPT-4 for nuanced user interactions
- Elevated user experience by leveraging React Hooks, Context API, and framer-motion to create an interactive and visually engaging front-end interface

**TruBlu, EECS 497** *University of Michigan*

- Developed Flask-Python application revolutionizing college tours, shaped by in-depth survey analysis of over 50 students
- Engineered an SQLite database schema that effectively managed user profiles and tour guides
- Applied an algorithm to intuitively connect users with optimal tour guides based on diverse set of user parameters

## Education

**University of Michigan** *Aug. 2019 – May 2023*

*B.S. in Computer Science and Cognitive Science*

- GPA: 3.68/4
- Relevant Coursework: EECS 481 (SWE), EECS 388 (Intro Computer Security), EECS 484 (Database Management) EECS 281 (Data Structures and Algorithms), CogSci 445 (Machine Learning/NLP), Psych 449 (Decision Processes)