# Zhe (Dennis) Wang

(267)-721-7394 | denniswz123@gmail.com | denniszwang.com | linkedin.com/in/denniswz | github.com/denniszwang

## Education

**University of Pennsylvania**, Philadelphia, PA                08/2023 – 05/2025
Master of Computer and Information Technology | **GPA: 4.0/4.0**
- Coursework: Database Systems, Software Engineering, Programming and Problem Solving
- Volunteer: MCIT student leader, formed the **Diversity & Inclusion** team, launched the **Alumni Panel**, coordinated the **First-Year Mentorship** program, and led the **MCIT Hackathon**

**Lafayette College**, Easton, PA                08/2018 – 01/2022
BA, Mathematics and Economics | Summa Cum Laude | **GPA: 3.9/4.0**

## Work Experience

**AsiaInfo Technologies,** *Returned Software Engineer Intern*                05/2024 – 08/2024
- Implemented key features such as user registration, identity verification, and session management, providing service for a company with **10,000+** employees, supporting over **50 million** database queries
- Designed a safety enhancing features by applying **RSA** encryption on **300,000+** logins
- Integrated back-end APIs with the database and the frontend pages using **Java, JavaScript, and MySQL**.

**AsiaInfo Technologies,** *Software Engineer Intern*                01/2023 – 08/2023
- Led the front-end migration of a high-traffic WeChat program from **Vue H5** to **Uni-App**, saving memory usage, optimizing rendering, and improving mobile response time by averaging **200ms**
- Implemented a **JWT** based authentication system, enhancing user session security and reducing server load
- Maintained a testing system, conducting extensive unit and integration tests that resulted in a **15%** reduction in post-deployment issues and ensured reliable system performance

**NetEase Cloud Music,** *Machine Learning Engineer Intern*                05/2022 – 08/2022
- Launched a recommendation model with **80%+** accuracy, resulting in $**70k+** in annual cost saving
- Designed and implemented a new algorithm using **Java**, leading to **7.3%** increase in user engagement
- Extracted and analyzed **300 TB** of historical data through **Spark SQL** and **RStudio** identifying trends and proposing new relational models

## Recent Projects

**Wildfire Detector**, *Project Manager*
- Deployed an AI-powered wildfire detection platform to provide accurate predictions on potential wildfires, utilizing **FastAPI/Python** backend and **Bootstrap** frontend, while integrating **Computer Vision** models and a **ChatBot**
- Implemented user interaction features, including uploading and bot chatting, and integrated with the backend APIs
- Led cross-functional programming, tracked project progress, and coordinated tasks among team members

**MCIT Degree Planner** *Full Stack Developer*
- Developed a curriculum planner application, supporting the MCIT community for **150+** students
- Implemented elective search, course recommendation and mentorship pairing features with **100% Junit** test coverage
- Combined various data structures using **Java** and applied Gale-Shapley algorithm in **Python**
- Managed a team of 4 utilizing **Kanban** frameworks to distribute works and faciliate seamless project integration

**Crowdfunding Page** - *Full Stack Developer*
- Launched a crowdfunding web platform to support small businesses in fund raising during financial hardship
- Developed resilient **RESTful APIs** with real-time updates using **Express** and **Node**, stored data using **MongoDB**, and integrated with the main applications through custom HTTP request handling
- Implemented registration, authentication, encryption, and profile management features using **Java**

## Skills

- **Programming Languages**: Java, JavaScript, TypeScript, Python, C/C++
- **Web Development**: HTML/CSS, Express.js, React.js, Redux, Node.js, Vue.js, Bootstrap
- **Technology**: AWS, Docker, Firebase, Flask, Git, SQL/NoSQL, MongoDB, Neo4j, Linux