William Silich

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Education:

- Iowa State University — Ames, IA
  - B.S. Computer Science — May 2024
  - Minor: Cyber Security
  - GPA: 3.85
- AWS Cloud Practitioner Certification — August 2023
- Western Dubuque High School — May 2020
  - GPA: 3.96

Work Experience:

- Software Engineering Intern to Part-Time – Principal Financial — May 2023 – Present
  - Worked with AWS cloud development and on-prem development
  - Implemented new features on a variety of AWS cloud-based web apps
  - Migrated applications and services from on-prem to cloud platforms
  - Implemented security fixes to vulnerable web applications
  - Worked with Typescript and Java (Spring Boot) applications
- Software Engineering Intern – Principal Financial — May 2022 – August 2022
  - Implemented security fixes to vulnerable web apps including Log4j
  - Worked as part of a team to test new security measures
  - Improved coverage for pre-prod deployment testing
  - Worked with Java (Spring Boot) applications
- Software Developer – Iowa State University — May 2021 – May 2023
  - Full Stack web developer (Typescript/JavaScript/CSS/HTML/PHP)
  - Created and implemented database relational models
  - Fulfilled 3rd party client design specifications
  - Used Git/Jira project management tools
  - Worked with Laravel/Vue Frameworks/PHP for developing websites

Notable School Projects

- AI-Powered Checkers:
  - Developed a Python application that would play checkers as part of AI class.
  - Implemented Alpha-Beta pruning search algorithm for finding best move
- Mobile App Development:
  - Developed as part of a team an Android racing application.
  - Focused on backend development using Spring Boot
- RPG Dungeon game:
  - Terrain generating and open world Pokémon game complete with battle and captures
  - Written in C and then later ported and advanced with C++

Recent Activities and Leadership:

- Cyber Security Club (IASG) — August 2021 - Present
  - Help organize and give talks about a variety of security topics, demonstrations, and bring in industry speakers
  - Cabinet member — August 2022 - Present
    - Vice President
    - Web chair
- Cyber Defense Competitions — September 2021 - Present
- Online Capture the Flag Competitions — August 2021 – Present
- Iowa State Honors Program — August 2020 – Present
- Eagle Scout — April 2019