

**Matthew Thomas Pisano**  
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**Objective:** A career in Cognitive Artificial Intelligence research and development.

**Skills/Experience:**

- Machine Learning: Familiarity with neural networks, genetic algorithms, and data preparation.
- Development (2 Years): DevOps in a professional team setting, CI/CD, and familiarity with Agile development methodology.
- Python Programming (3 Years): Professional experience, back-end development, and ML libraries.
- AWS (2 Years): DevOps, CI/CD through AWS Cloudformation, along with EC2, Lambda, and S3.
- Java Programming (5 Years): Advanced data structures, application development, and design patterns.
- Android Development (2 Years): Development and publishing of several Android apps meeting Android best practices standards.
- Web Development (3 Years): React.js, Node.js, responsive web design, and database management.
- GitHub: [github.com/ReactorDevelopment](https://github.com/ReactorDevelopment) for a more thorough showcase of various projects and programming proficiency in multiple languages. Examples of proprietary projects may be made available upon request.
- Portfolio Website: [reactordevelopment.com](https://reactordevelopment.com) for a detailed look at notable projects and research.
- Awards and Certifications: Eagle Scout, Vigil Honor, and Red Cross CPR/AED.

**Research and Publications:**

- **On Picard Groups and Jacobians of Directed Graphs**, Sponsor: SUNY New Paltz Summer Undergraduate Research Experience. Study of Chip-Firing games and how different orientations of edges affect its winning strategies and the properties of the game. Accepted into JMM 2023 Conference, travel grant offered. Planned submission to the *Journal of Experimental Mathematics* in Winter 2022.
- **Predictive Diabetes Diagnosis using Backpropagation, Genetic Training, and Decision Tree Optimization**. Research report to analyze the effectiveness of three neural network training methods to diagnose hypothetical patients with type II diabetes.

**Higher Education:**

- **SUNY New Paltz**, 1 Hawk Dr, New Paltz, NY. (2021-Present) Bachelor's degree in Computer Science, Minor in Applied Mathematics, and undergraduate research. 4.0 GPA and consecutive Dean's list.
- **SUNY Ulster Community College**, 491 Cottekill Rd, Stone Ridge, NY. (2019-2021) Associate's Degree in Computer Science. Web and Mobile Application Certifications, Phi Theta Kappa Honors Society. 4.0 GPA and consecutive President's list.

**Work Experience:**

- **Cyber Guardian Consulting Group**, 63 John St, Kingston, NY: Software Developer. (2020-Present)  
Projects and Experience: Extensive use of AWS, custom SaaS solutions, full stack web development, backup and restoration software, development in Python, PowerShell, and Javascript frameworks.
- **Envision2bWell**, 929 South High St, West Chester, PA: Android Application Development Intern. (2020)  
Projects: Integration of Google Maps services into the Envision2bWell mobile app.
- **SURE Research Program (SUNY New Paltz)**, 1 Hawk Dr, New Paltz, NY: Research Assistant. (2022)  
Research: *On Picard Groups of Directed Graphs*. Mathematics research mentored by Jaiung Jun.