Nicholas Falletta

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EDUCATION

The Pennsylvania State University, University Park, PA   *May 2025*
Bachelor of Science, Human-Centered Design & Development
Smeal College Business Fundamentals Certificate

PROFESSIONAL EXPERIENCE

RGTN Corporation B.V.   **August 2025- Present**
Software Engineering Intern   *New York, NY*
- Modernized infrastructure by migrating a Perl-based software into a containerized Python microservice using Docker, gRPC, Flask, & Helm, improving scalability & maintainability.
- Developed secure payment & database workflows by implementing webhook handlers, cryptographic signature verification, & transaction processing logic integrated with the Stripe API.
- Built an AI-powered assistant leveraging Microsoft Azure OpenAI for retrieval-augmented generation **(RAG)**, with a modular Web Component front-end & a Node.js-based backend API grounded on Azure Blob Storage.
- Collaborated with external RGTN partners to define & align on API contracts, reducing integration overhead & accelerating development timelines.
- Upheld data security standards, ensuring full compliance with confidentiality agreements & data handling protocols for proprietary systems & third-party partnerships.

Pennsylvania State University   **May - December 2024**
Software Developer Intern   *State College, PA*
- Developed a strong foundation in accessibility-focused design & user-centered research through collaboration with visually impaired users & academic professors.
- Honed problem-solving & team collaboration skills by working in weekly meetings with PhD students & professors to troubleshoot, refine, & iterate on each other's projects.
- Led the development of **NaviGPT**, an iOS application using Swift & OpenAI's API to help visually impaired users navigate safely.
- Researched & implemented best practices in AI & navigation by studying academic literature, ensuring the app effectively addressed real-world challenges in accessibility.

LEADERSHIP & COMMUNITY

Fundamentals of Computing Association | State College, PA | Project Manager   *August 2023 – May 2025*
- Cultivated leadership & mentorship skills by guiding students through semester-long technical projects, including a personality-based AI chatbot that modifies a website's visual appearance.
- Fostered a collaborative & inclusive learning environment by organizing & leading weekly technical boot camps covering skills such as React.js, Full Stack development, GitHub workflows, & UI/UX principles.
- Inspired growth in peers by emphasizing problem-solving, creativity, & ownership in all projects, helping students apply classroom knowledge to impactful real-world solutions.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, MySQL
Frameworks: React, React Native, Node.js, Tailwind, Bootstrap, Flutter, Angular
Tools: Docker, MongoDB, Firebase, Git