

JOSEPH VITALE

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EXPERIENCE

Hygeia, Founder *May 2026 to Present*

Philadelphia, PA

- Founded an AI automation agency building done for you patient communication systems for independent dental and medical practices, including an AI voice agent that calls patients automatically to recover missed appointments.
- Owned the full technical build and customer facing motion solo: designed and shipped five automated workflows connecting a CRM platform to an AI voice API through webhooks, then ran outbound sales to practice owners to convert pilots into paying clients.

FranklinTutors.com, Founder *Feb 2025 to Present*

Philadelphia, PA

- Founded and scaled a multidisciplinary tutoring business (engineering, STEM, music) to 30 active clients, owning the full customer lifecycle end to end: acquisition, curriculum design, delivery, and retention.
- Translated dense technical and academic material into individualized workflows for students from high school through graduate level, adapting communication style in real time to each client's background and goals.

University of Pennsylvania, Graduate Teaching Assistant, Machine Learning *Jan 2025 to May 2025*

Philadelphia, PA

- Guided 100+ students through supervised and unsupervised learning and deep learning model deployment; over 90% shipped a working deployable model and earned an A grade.
- Served as the technical translator between ML theory and hands on implementation, debugging student workflows individually under tight deadlines, the same skill required to deploy AI safely inside live clinical environments.

Seabird Technologies, Propulsion Engineer Intern *May 2024 to Sept 2024*

London, UK

- Built MATLAB/Simulink control models for HV DC-DC converters, increasing propulsion efficiency 12% on the E1 Racebird prototype, a high stakes, real world deployment with no margin for error.
- Ran hydrodynamic analysis and iterative propeller redesign, reducing cavitation and extending vessel range 8% under full throttle conditions.

LEADERSHIP & EXTRACURRICULARS

University of Glasgow Fintech Society, President & Head of Technology *2021 to 2023*

- Directed society operations and technical strategy while owning relationships with corporate partners (PwC, &strategy, Virgin Money), securing sponsorship to fund large scale hackathons and student initiatives.

Jovus, Independent Artist and Producer *2025 to Present*

open.spotify.com/artist/4XpUg0yUbCzwtyNk0nhGdQ

- Write, produce, and self-record original music under the artist name Jovus, handling songwriting, instrumentation, and mixing independently from first take to final master.
- Released debut single "Closer" (May 2026), with "Disguise" following in July 2026, as part of an independent project spanning production, distribution, and audience growth alongside running two companies.

University of Pennsylvania Blockchain, Developer & Researcher *2023 to 2024*

- Investigated Avalanche (AVAX) cross chain interoperability architecture and its implications for DeFi scalability.

EDUCATION

University of Pennsylvania, M.S.E. in Scientific Computing *2023 to 2025*

GPA 3.8/4.0 • Coursework: AI/ML, Deep Learning, Audio Engineering, UAVs, Mechatronics

University of Glasgow, B.S. Mechanical Engineering with Aeronautics *2019 to 2023*

Distinction, Excellence Award • Aerodynamics, Propulsion, Thermodynamics, Aircraft Design, Robotics

SKILLS

Python, PyTorch, SQL, AWS, MATLAB, C/C++, Apache Spark, NI LabVIEW, SolidWorks, STAR-CCM+, ANSYS, Logic Pro X