Evan C. Adami

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EDUCATION

University of Southern California   Los Angeles, CA
Bachelor of Science in Computer Science | **GPA: 4.00**   *Expected May 2028*
Activities: Trojan Scholars Society, Quant SC, LavaLab Developer, Alpha Lambda Delta Honor Society
Honors: Presidential Scholar

EXPERIENCE

Head of Engineering   January 2025 – Present
Penni   *Los Angeles, CA*
- Lead technical development and engineering strategy for early-stage micropayments startup
- Design and implement Stripe payment integrations, scalable PostgreSQL database, user authentication and security, and reusable React components
- Spearheading partnership initiatives with 5 targeted news companies to expand platform reach

Research Intern & Software Engineer   May 2023 – Oct 2023
UC San Diego - Functional Neuroscience Lab   *San Diego, CA*
- Developed a 3D driving game in C# for visualizing neurofeedback
- Programmed an interface in MATLAB for the game to connect to an EEG device and receive real-time input
- Provided neurofeedback therapy using my software to 20+ schizophrenia and dementia patients in my community
- Showcased innovative neurofeedback technology to 10,000+ industry leaders and professionals at HLTH 2023

Artificial Intelligence Researcher   July 2022 – September 2023
Inspirit AI   *Remote*
- Researched optimizations for different ML models Python such as logistic regression, K-nearest neighbors, SVM, gradient boosting decision trees, and neural networks
- Developed a healthcare app with a team that used a CNN to diagnose skin cancer based on an image
- Achieved ~93% accuracy and presented work to 100+ students and researchers in conference

PROJECTS

Lattice | *TypeScript, React, Python, FastAPI, PostgreSQL*   September 2024 – Present
- Led the creation of a full-stack application, Lattice, that streamlines chemical R&D in the patent analysis space, saving chemists 5+ months and $100,000+
- Conducted 15+ user interviews with R&D scientists to validate product-market fit and iterate on features/UX design
- Engineered a solution using React frontend, FastAPI backend, and database with authentication using PostgreSQL
- Utilized ML model to embed ~3 million chemicals as vectors for similarity searches and generative chemistry
- Partnered with 4 biopharmaceutical companies for testing and was awarded $1,000 in seed funding

Machine Learning to Predict Alzheimer's | *Python, Scikit, TensorFlow*   December 2022 – September 2023
- Designed gradient boosing decision tree model and dimensionality reduction method to predict Alzheimer's disease with ~20% greater accuracy than random guessing
- Identified 8 novel DNA methylation sites correlated with Alzheimer's disease
- Published research in peer-reviewed journal: https://doi.org/10.59720/23-054

SKILLS AND AWARDS

Languages: Python, JavaScript, TypeScript, C++, C#, Java, HTML/CSS, SQL, GraphQL
Frameworks: React, Next.js, Node.js, Express.js, React Query, Tailwind CSS, Django, FastAPI
Developer Tools: Git, Docker, PostgreSQL, Google Cloud, Supabase, Firebase, MATLAB, Cursor, IntelliJ, Unity
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
Awards: USC Presidential Scholar, National Merit Finalist, National Hispanic Recognition