James Staud
Engineer, Leader, Designer, and Entrepreneur
Fort Worth, Texas, United States

About
Innovating and building new products and solutions is my passion. I pride myself on my creative process and my ability to bring a team together to tackle any challenge. I'm a developer, leader, friend, teammate, and cancer survivor.

Licenses & Certifications

- **Data Science Bootcamp** - O'Reilly (Feb 2024)
- **AI Art & Text Generation** - O'Reilly (Dec 2023)
  - Skills: Large Language Models (LLM), Prompt Engineering
- **ChatGPT and Copilot in 4 Hours** - O'Reilly (Dec 2023)
  - Skills: Large Language Models (LLM), Prompt Engineering
- **ICS-400: Advanced Incident Command System for Complex Incidents** - TEEX (Dec 2023)
- **Intro to Pandas** - O'Reilly (Dec 2023)
- **Beginning Splunk** - O'Reilly (Nov 2023)
- **CKAD Crash Course** - O'Reilly (Nov 2023)
  - Skills: Kubernetes
- **ChatGPT for Engineers** - O'Reilly (Nov 2023)
  - Skills: Machine Learning, Prompt Engineering
- **Containers in 4 Hours** - O'Reilly (Nov 2023)
  - Skills: Kubernetes
- **Kubernetes Fundamentals** - O'Reilly (Nov 2023)
  - Skills: Kubernetes
- **Kubernetes GitOps** - O'Reilly (Nov 2023)
  - Skills: Kubernetes
- **Kubernetes in 4 Hrs** - O'Reilly (Nov 2023)
  - Skills: Kubernetes
- **Linux Under the Hood** - O'Reilly (Nov 2023)
- **NLP with Transformers** - O'Reilly (Nov 2023)
  - Skills: Machine Learning, Prompt Engineering
- **Smarter pandas for data science** - O'Reilly (Nov 2023)
- **Terraform: Getting Started** - O'Reilly (Nov 2023)
- **Text-Based Apps with ChatGPT** - O'Reilly (Nov 2023)
  - Skills: Large Language Models (LLM), Prompt Engineering
- **Wilderness SAR 1** - TEXSAR: Texas Search and Rescue (Nov 2023, Expires Nov 2025)
- **IS-315.A: CERT And The Incident Command System (ICS)** - FEMA (Oct 2023)
- **CPR & AED** - American Safety and Health Institute (Aug 2023, Expires Aug 2025)
- **Bleeding Control (BCON)** - American College of Surgeons (Jul 2023)

- **G-428: Community Emergency Response Team Train the Trainer** - Texas Division of Emergency Management (May 2023)
- **IS-201: Forms Used For The Development Of The Incident Action Plan** - FEMA (May 2023)
- **IS-2200: Basic Emergency Operations Center Functions** - FEMA (May 2023)
- **G-317: Community Emergency Response Team (CERT) Course** - Texas Division of Emergency Management (Mar 2023)
- **IS-700.B: An Introduction to The National Incident Management System** - FEMA (Mar 2023)
- **Introduction to Incident Command System, ICS-100** - FEMA (Mar 2023)
- **ICS-300: Intermediate Incident Command System for Expanding Incidents** - Civil Air Patrol (Sep 2021)
- **IS-000800.d National Response Framework, An Introduction** - FEMA (Sep 2021)
- **ICS for Single Resources and Initial Action Incident, ICS-200** - FEMA (Jan 2012)
- **Sartech II** - The National Association For Search And Rescue (Jun 2010)

Projects

- **The Beer Money App** (Aug 2016 - Apr 2017)
  An app to help users save money on outings and day-to-day expenses through geo-location-based coupons and savings, reporting total savings as "beer money."
    - Skills: iOS, Mobile Applications, Web Development, Databases
- **GridLock** (Sep 2015 - Sep 2016)
  An API platform for real-time traffic monitoring and control, utilizing machine learning algorithms to optimize traffic light schedules and reduce emissions.
    - Skills: System Architecture, API Development, Embedded Systems, Product Design, Web Development
- **Liza** (Sep 2014 - Dec 2014)
  A gamification app promoting water conservation during droughts in Texas, using smart water meters and a mobile interface.
    - Skills: API Development, Embedded Systems, Software Architectural Design, iOS, Mobile Applications
- **Vert** (Sep 2014 - Dec 2014)
  A gamification app encouraging recycling by interfacing with smart trashcan sensors and rewarding participants for conservation efforts.
    - Skills: Full-Stack Development, API Development, Embedded Systems, iOS, Mobile Applications, Databases

Volunteering

- **Emergency Services Officer** - Civil Air Patrol (Mar 2017 - Present)
- **Deputy Commander for Cadets** - Civil Air Patrol (Nov 2011 - Mar 2017)
- **CERT Instructor** - City of Burleson (Apr 2023 - Present)
- **Vice President** - Benbrook Lakeshore Neighbors Association (Oct 2022 - Present)
- **Greyshirt** - Team Rubicon (Oct 2023 - Present)

- **SAR Support** - TEXSAR: Texas Search and Rescue (Mar 2023 - Nov 2023)
- **Storm Spotter** - FW RACES (Mar 2023 - Present)
- **Treasurer** - Burleson CERT Association (Oct 2023 - Present)
- **SAR Responder** - TEXSAR: Texas Search and Rescue (Nov 2023 - Present)
- **Director of Audio Visual** - City Life Church (Nov 2010 - Oct 2014)

Skills

- Artificial Intelligence (AI), Swift, Google Cloud Platform (GCP), Amazon Web Services (AWS), Ansible, Python, Microsoft Azure, Terraform, Software Architecture, Printed Circuit Board, Prompt Engineering, Kubernetes, Machine Learning, Computer Vision, iOS, Research and Development (R&D), Databases, Microservices, API Development, System Architecture, Proposal Support, Software Architectural Design, Project Management, Product Design, Production Management, Full-Stack Development, Leadership, Robotics, Programming, Mobile Applications, Web Development, Troubleshooting, Java, Android, Microsoft Office, HTML, Microsoft Excel, Embedded Systems, Photoshop, Public Speaking, Leadership Development, Training, Team Leadership, Management, Teamwork, Networking, Web Application Design.

Patents

- **System and method for sensing and computing of perceptual data in industrial environments**
  A system combining sensors and computing capabilities to gather and analyze object data, improving industrial operations.
- **Profiling pallets and goods in a warehouse environment**
  A system for capturing and analyzing pallet data to enhance warehouse management.

Publications

- **Monitoring Breathing Activity and Sleep Patterns Using Multimodal Non-Invasive Technologies**
  A system using non-invasive sensors for sleep and breathing pattern monitoring, integrating machine learning and computer vision.
- **What is the Point of Mobile Systems? New Technology for Students**
  A study on the impact of mobile technology in education, exploring new applications and sensor integrations.

Languages

- C/C++ (Professional), JavaScript (Professional), Python (Full Professional), Swift (Full Professional), SQL (Professional), Java (Limited), C# (Limited)

Causes

- Children, Economic Empowerment, Education, Environment, Health, Disaster and Humanitarian Relief, Science and Technology.