

## SKILLS

Python  
Dart / Flutter  
C / C++ / CMake  
Rust  
HTML / CSS / JS  
Databases  
Docker / Kubernetes  
OpenAPI  
Linux  
Git - GitLab/GitHub/Bitbucket  
CI/CD + DevOps  
Google Cloud  
AI/ML  
Supervised Learning  
Reinforcement Learning  
OpenCV  
CUDA / OpenCL

## PROJECTS

Explainable Fuzzy Challenge  
Flutter App AutoCall  
NASA Student Launch

## INTERESTS

UI/UX  
eSports  
non-eSports  
Cooking / Baking  
Fitness

## SUMMARY

Lifelong learner with full stack engineering experience, a passion for optimization, and strong interest in AI/ML and engineering leadership.

## EXPERIENCE

### Full Stack Software Engineer, Pieces — October 2021 - October 2022

- Contributed across the full tech stack: implemented front end features for native and web apps, architected stateless cloud API microservices, and productionized NLP + CV ML models.
- Streamlined MLOps and DevOps procedures with CI/CD, open-source company linter, cloud artifact registry, data tracking pipelines, dockerization and internal documentation procedures.
- Built and released new products: [Code++ Chrome Extension](#), [CodeFromScreenshot.com](#), [Runtime OCR API](#), and Pieces for Colors.
- Active in company hiring process, mentoring developers, and code reviews.

### Senior AI Engineer, Thales Group — 2018-2021

- Lead development of first-of-its-kind genetic fuzzy logic toolkit for interpretable and explainable AIs in safety critical applications.
- Hosted knowledge transfer workshops to train 40+ global Thales AI Engineers/Scientists to use proprietary AI/ML toolkit for their applications.
- Contributed to research papers, patent applications, and government proposals. Awarded 1 patent and 2 patents pending.
- Leveraged Gitlab CI pipelines to automate build, test, code quality analysis, and documentation generation to improve productivity.

### Software Engineer, Psibernetix — 2017-2018

- Start-up acquired by Thales Group in Dec 2018.
- Built low-fidelity simulation environments to develop genetic fuzzy AI solutions for multi-agent reinforcement learning and optimal real-time autonomous control proof-of-concepts.
- Developed genetic fuzzy-logic machine learning suite and improved training efficiency—90% improvement in CPU-bound applications, up to 1000% with CUDA/OpenCL. Achieved nanosecond level efficiency in inference speed.

## EDUCATION

### BS Aerospace Engineering , University of Cincinnati — 2012-2017

Graduated Summa Cum Laude at top of class. German Minor. Distinguished University Honors Scholar. Combined 2 years of internship experience at MIT Lincoln Laboratory and ATA Engineering.