# Jon Tokad

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## EDUCATION

**Purdue University**                                                                                  West Lafayette, IN
*Bachelor of Science in Computer Science*                                                     *Aug. 2021 – May. 2025*
**Concentration: Systems Software**                                                          **Minor: Mathematics**

## SKILLS

**Programming Languages**  C(++), Java, Python, JavaScript

**Tools & Frameworks** UNIX/Linux/WSL, Docker (Compose), Kubernetes, AWS, Ansible, Flask, Spring, Eclipse, VS Code, LLVM

**Systems Courses** Operating Systems, Compilers, Embedded Systems, Cloud Computing, Computer Architecture, Computer Networks, Computer Security

## INDUSTRY EXPERIENCE

**EnclaveX**                                                                                          June 2024 - Present
*Software Engineer Intern*                                                                            *San Francisco, CA*
- Secure communication and sharing platform that ensures CMMC, NIST 800-171, and ITAR compliant software
- Use Spring MVC built using Maven and the OpenAPI generator
- Fixed file naming issues with ORM objects using JPA, implemented field validations by modifying OpenAPI spec and writing validator programs using regex, and sent event messages for blob creation to RabbitMQ

**Tote Technologies**                                                                                          July 2024
*Software Engineer Intern*                                                                            *San Francisco, CA*
- AI-driven retail solution for improving product placement and consumer experience
- Created an ethical web crawler to scrape images off of aliexpress.us to use an as example for model training
- Deployed a small language model on an IOS emulator to demonstrate the plausibility of an on-device AI chat bot

## RESEARCH EXPERIENCE

**NextGArch Lab**                                                                          February 2023 – May 2024
*Undergraduate Research Assistant*                                                                    *West Lafayette, IN*
- Contributed to early versions of Tegra, a 5G connected edge platform created to disaggregate mobile core functions
- Added 4G support for the mobile core, ROC, and monitoring, all tested using gNBSim
- Attend and present at weekly seminars to stay up to date on systems and networking research

## PROJECTS

**Frank's Espresso**
- Embedded device programmed using an Adafruit trinket m0 micro-controller that sends programming logic to a relay that powers a solenoid that dispenses espresso into a glass at 35-second intervals
- Connected four 12V batteries with nickels and wire to achieve the required 3 amps to power the solenoid
- Soldered pins to the micro-controller to connect output pins to relay using wire

**StockPro**
- Collaborated with a group of 4 on a paper trading application implemented using Docker, Terraform, GitLab CI/CD, AWS Lambda, ECR, Fargate, API Gateway
- Wrote code utilizing Alpaca API for buy, sell, and sell all functionality in a containerized development environment

**ManageHelp**
- Collaborated with a group of 4 on a work management platform created with the MERN stack and Scrum methodology which allows managers to easily assign schedules and tasks to employees
- Implemented the email system and user-removing functionalities and lead the team as Scrum master in sprint 2

**TokShell**
- UNIX-based shell that encompasses most of the important features present in the standard bash shell
- Used Lex, Yacc, default bash commands, and C++ classes to complete this project