

Edward Potapov

(+1) 505-553-5520 | US Citizen | edwardpota@gmail.com | [linkedin.com/in/edward-potapov/](https://www.linkedin.com/in/edward-potapov/) | github.com/epotapov

EDUCATION

Purdue University

West Lafayette, IN

Bachelor of Science in Computer Science; GPA: 3.86/4.0

Aug. 2021 – May 2025

- **Relevant Coursework:** Algorithms, Operating Systems, Security, Software Engineering, Networks, Compilers

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, HTML/CSS, x86 Assembly, SQL, R

Technologies: LLVM, Django, React, Node.js, Express.js, MongoDB, JavaFX, J2EE

Developer Tools: Git, Vim, VScode, Docker, Visual Studio, IntelliJ IDEA, Eclipse, Subversion, L^AT_EX

EXPERIENCE

Software Engineer R&D Year-Round Intern

May 2023 – Present

Sandia National Laboratories

Albuquerque, NM

- Wrote a camera monitoring application to interface with 10+ high-speed Phantom cameras and network devices using custom GUI Python libraries to save technologists 80% of their time.
- Rewrote various network classes to use socket connections to monitor and set-up multi-device experiments.
- Developed a new internal project management web app for creating task schedules and resource allocation in Django. Saved about 50% of the business team's time by migrating from MS Projects.
- Used to manage 100+ resources and schedule 300+ experiments and other business tasks.
- Created a REST API using the Django REST Framework to provide endpoints for creating and developing projects and also to serve the projects as JSON.
- Designed an algorithm that detects overlapping resource utilization based on events and displays indicators so users can make informed decisions about schedule plans for overbooking tasks.
- Wrote an upload feature and script to upload MS Project files to convert and save to a SQLite database.

Undergraduate Teaching Assistant

Jan. 2023 - May 2023

Purdue University

West Lafayette, IN

- TA for CS 240: Programming in C a class that teaches advanced programming in C and the UNIX environment.
- Oversaw 2 weekly labs helping classes of 20 students with C assignments and related programming topics.
- Developed examples to teach C programming aside from examples given in class.

Software Engineer Intern

May 2022 – Aug. 2022

Ultramain Systems Inc.

Albuquerque, NM

- Worked with Java, XML, and SQL to maintain the Aircraft Maintenance and Engineering Software.
- Helped identify causes of issues in the client and the server business logic to improve task performance by 20%.
- Developed and proposed proof of concept data entry views for inventory tracking in new versions of the software.

PROJECTS

Apollo | *MongoDB, Express.js, React, and Node.js*

Feb. 2023 - Apr. 2023

- Created a full stack social media website geared for Purdue students looking to register for classes.
- Contained a mixture of features ranging from course reviews, course threads, course search, grade distributions, groups, and chat functionality.
- Worked as a full stack developer for the website with a group of classmates with a focus on developing the UI components in React.

Operating System Modifications | *C, x86 Assembly*

Aug. 2023 - Dec. 2023

- Added new features to the Xinu operating system to be more up to date with modern operating systems.
- Implemented system calls, process scheduling, inter-process communication, ROP, and asynchronous events.

A*/Dijkstra Pathfinding Visualizer | *Java, JavaFx*

Jul. 2020 - Jul. 2020

- Developed a GUI application to display the process of both A* and Dijkstra in a given grid provided by the user.
- Showed in real time all the locations the respective algorithms would go based on whether they had a search heuristic or not.