LUKE LAVIN

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EDUCATION

Purdue University August 2018 - May 2021
West Lafayette, IN
Bachelor of Science in Computer Science - Machine Intelligence Track GPA: 4.0/4.0

Relevant Coursework:
- **Completed:** Software Engineering, Data Structures and Algorihtms, Systems Programming, Object Oriented Programming, Discrete Math, C Programming, Computer Architecture, Multivariate Calculus, Elementary Linear Algebra, Intro to Statistics, Probability
- **Currently Enrolled in:** Data Mining and Machine Learning, Analysis of Algorithms, Information Systems

Honors/Awards: Computer Science Corporate Partners Scholarship, National Merit Scholarship, Deans List

EXPERIENCE

84.51° - Software Engineering Intern May 2020 - July 2020
Chicago, IL
- Built cloud-native service allowing dynamic self-registration for Azure Service Bus monitoring, freeing developers from manually updating hardcoded monitor configuration or coordinating across teams
- Contributed to key company-wide DevOps resources, such as Terraform modules and shared Azure Pipelines templates
- Worked with other interns to create a Flask API that identifies old/unused projects wasting resources

Ford Motor Company - Student Data Science Consultant September 2019 - May 2020
West Lafayette, IN
- Partnered with Ford Motor Company and other students through Purdue's Data Mine learning community
- Developed a system that uses Natural Language Processing to answer drivers' questions about their car
- Led creation of Information Retrieval system to accurately filter data used by intensive QA model, reducing load by 65
- Used Agile development approach to coordinate group workflow among 10 students

PROJECTS

Conglomerate - CS 30700 February 2020 - May 2020
- Developed a cross-platform app for collaborative work with messaging, document sharing, and calendar integration as a semester-long group project for a Software Engineering course
- Architected system involving Flutter client, Spring Boot server, MySQL database, and Amazon S3 cloud storage
- Led backend development, initalizing databases, setting up testing, and configuring CI/CD on remote hosting

Cluebase - Personal Project August 2019
cluebase.lukelav.in/
- Designed and developed a RESTful API for over 5,000 episodes and 350,000 clues from the TV game show *Jeopardy!*
- Used a Python script to scrape, parse, and clean data from an online archive before inserting it a PostgreSQL database
- Deployed the Python Flask based API to an AWS EC2 instance using Docker Compose and Docker Machine

Safe Walk - Purdue ACM SIGApp January 2019 - Present
- Modernizing the Purdue Police Department's Safe Walk program by replacing call-based system with self-sufficient app
- Working collaboratively on the backend of the project using Spring Boot to serve both the mobile and web frontends

INVOLVEMENT

Hello World Hackathon - Comms Team Member March 2020 - Present
- Drive engagement with current students to recruit mentors, reach out to student organizations to schedule workshops, and contact department officials to secure hardware for Purdue's freshmen-only hackathon

Purdue Computer Science - Teaching Assistant January 2019 - Present
CS 18000 (Object Oriented Programming), CS 25000 (Computer Architecture)
- Provide guidance and insight to students in lab sections, holding weekly office hours, and proctoring exams
- Explain key concepts to both CS and out-of-major students of varying levels of experience

SKILLS

Languages: Java, Python, SQL, C
Frameworks/Packages: Flask, Spring, AIOHTTP, Flutter, Selenium, web scraping frameworks, unit testing frameworks
Dev Tools and Environments: Git, Docker, Jenkins, Microsoft Azure, Terraform, Amazon Web Services