

Pranjal Punekar

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EDUCATION

Purdue University

West Lafayette, IN

Bachelor of Science in Computer Science, Minor in Psychology, GPA : 3.85

Aug. 2019 – May 2023

- Concentrations: Systems Programming, Machine Intelligence, Software Engineering
- Coursework: Relational Databases, Machine Learning, Algorithmic Analysis, Compilers, Operating Systems

EXPERIENCE

Tableau (Salesforce)

May 2022 – August 2022

Software Engineer Intern : Query Pipeline Team

Seattle, WA

- Created a new command line interface to accelerate testing process for the minerva client library designed to replace an old library and facilitate communication between client and query services to optimize and process all queries.
- Implemented 3 APIs using the Minerva Client within the new interface
- Performed the tasks of an OnCall Engineer for 1 week and handled 5 alerts

Purdue University Department of Computer Science

August 2021 – Present

Teaching Assistant

West Lafayette, IN

- Systems Programming: Conducted lab sessions with 30 students. Held weekly office hours to answer questions.
- Algorithmic Analysis: Lead weekly practice sessions for a class of 20 students and graded homework.
- Software Engineering: Project Manager for 3 teams of 5 students. Aid the teams to reach their semester-long goals.

Palo Alto Networks

May 2021 – August 2021

Software Engineer Intern : Transport Layer Security and Proxy team

Santa Clara, CA

- Setting up virtual machines and routing them through the firewall to create a test environment and worked on updating the SSH protocols supported by the firewall.
- Added 2 new hash-based message authentication algorithms to make the SSH connection more secure
- Implemented 3 new symmetric encryption algorithms to improve the SSH encryption

Reliable and Secure Systems Lab - Purdue University

October 2020 – May 2021

Research Assistant : Worked under Dr. Pedro Fonseca on Rapid - a distributed systems framework

West Lafayette, IN

- Built an analysis tool in python to compare system call traces outputs for programs run on local and remote machines to diagnose significant differences that may affect the semantics of the program.
- Running experiments on various workloads on the Spark Framework for comparison with Rapid.

PROJECTS

Chefly | Flutter, Dart, Firebase, Android Studio

January 2021 – May 2021

- Developed an android app in flutter using firebase for the backend.
- Users can easily store, categorize recipes and interact with friends recipes
- Users can plan their weekly meals and creates automatic weekly shopping lists based on their inventory and meal planning.

Custom Shell | Lex, Yacc, C, C++

March 2021 – April 2021

- A shell built using C/C++ with functionality similar to bash.
- Implemented pipes, sub shells, pipes, i/o redirection, wildcard expressions etc

ACTIVITIES

Purdue LaunchPad | Mentor

Mentoring a freshman to build an app using Flutter and Firebase.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, MySQL, JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Express, JUnit, MongoDB, Android Studio, Flutter, Firebase, Apache Spark

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib