

# Saurav Panthee

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## EDUCATION

### University of Texas at Tyler

*Bachelor of Arts in Computer Science, Minor in Mathematics*

Tyler, TX

Aug. 2017 – May 2022

## EXPERIENCE

### Undergraduate Research Assistant

August 2020 – Present

*The University of Texas at Tyler*

*Tyler, TX*

- Developed image classification architecture using invariant features.
- Extracted 34 features using ring and wedge filters by using discrete cosine transform.
- Trained three models: Decision Tree, Support Vector Machine and Logarithmic Regression Classifier using extracted features.
- Matched features with a 94 percent accuracy using Logarithmic Regression.
- Co-authored *Texture Classification using Angular and Radial Bins in the Transformed Domain* with 4 students under the guidance of Professor Kulkarni.

### Teaching Assistant

Jan. 2017 – Present

*The University of Texas at Tyler*

*Tyler, TX*

- Reviewed and edited over 60 e-commerce websites developed by students using Wix and Weebly.
- Proactively developed an application in Python using Openpyxl to automatically grade excel worksheets. This brought down the grading period from 4 hours to 30 minutes.
- Proactively created a web application to assign SAP user ID and password to over 200 students using the canvas API, Excel and Flask. This brought down the task of assigning user IDs from 3 hours to less than 20 minutes.
- Created a python GUI application to detect plagiarism in excel assignments by generating and assigning a unique excel sheet for each student using openpyxl, and canvasapi.
- Helped students work with data visualization tools such as Tableau and Power BI to create meaningful dashboards, and summarize data to gather insights for City of Tyler.
- Summarized responses from student surveys using tools such as Excel, Tableau and Power BI to plan and implement assignments for classes.

## PROJECTS

### Automated Canvas | *React, Redux, Node, Express, MongoDB, Canvas API, AWS*

November 2020 - Present

- Designed, developed and deployed a full-stack web application for college students/teachers to keep track of their classes and assignments using Node, Canvas API and Express serving a REST API with React as the front-end
- Seamlessly integrated Canvas with the website by encrypting the canvas token
- Implemented a Trello Clone for students to manage their to-do list which can be directly imported from canvas
- Made it easier for students working as TA to differentiate between their classes and the classes they are teaching

### Libri | *React, Redux, Node, MongoDB, Express, Cloudinary*

May 2020 - Present

- Developed and deployed a full-stack web social media/marketplace application for college students using Node and express serving a REST API with React as the front-end
- Implemented secure login using JWT Tokens
- Enabled students to easily buy and sell used textbooks and school supplies across the University.
- Enabled students to network easily by showing them ongoing events around the university

### Other Projects | *React-Native, Xcode, Swift, Flask, Python*

- Developed a mobile application using Swift, Xcode to manage shared grocery list and finances between roommates
- Used python and flask to create an API to scrape data from smartmetertexas and developed an mobile application using Swift to track electricity usage.
- Developed a landing website for a discord server to help manage paid roles using React
- Developed front-end side for an app to display Tiktok stats using React Native

## TECHNICAL SKILLS

**Languages:** Java, Python, Swift, SQL, JavaScript, MongoDB, HTML/CSS

**Frameworks:** React, React Native, Node.js, Flask, Tailwind Css, WordPress, Xcode, Material-UI

**Developer Tools:** Git, Jira, Amazon AWS, Digital Ocean, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Relevant Course works:** Database Designs, Data structures and algorithms, Computer Networking