

# TANMOY PURKAIT

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## SUMMARY

Master's in Computer Science. Experienced in **Full-Stack development**. Actively seeking **full-time Software Engineering roles**. Available to join immediately.

## EDUCATION

- **Arizona State University, Tempe, AZ** Aug 2019-May 2021  
*Master of Computer Science (3.83/4 GPA)*
- **Government College of Engineering and Ceramic Technology, West Bengal, India** Aug 2015-May 2019  
*Bachelor of Technology in Computer Science and Engineering (3.8/4 GPA)*

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Java, C, C++, PHP.
- **Web Technologies:** HTML, CSS, SASS, Bootstrap, WordPress, Ajax, REST, JSON, XML.
- **JavaScript Libraries and Frameworks:** ReactJS, React Native, Redux, Material UI, jQuery, Node.js, Express JS, Passport.js, Mongoose.js, D3.js, Plotly.js, Chart.js
- **Databases & Platforms:** MongoDB, MySQL, SQL, PostgreSQL.
- **Other Technologies:** Git, Amazon Web Services, Google Cloud Platform, Firebase, Heroku, Vercel, Netlify, MongoDB Atlas, Google OAuth 2.0, Google Analytics 4, iOS/Android Mobile Application Development, Android Studio, Selenium WebDriver, Spark, Axure RP, UI/UX Design, TypeScript, Linux, Unix, Bash, Shell Scripting.

## WORK EXPERIENCE

**MERN Stack Developer, Teuvonet Technologies, Tempe, AZ** May 2020 - December 2020

- Designed complex user dashboards for Machine Learning Algorithms run on FPGA SoC/GPUs in IoT environment.
- Extensive use of React JS, Redux, React Router, Styled Components & Material UI. Usage of D3.js, Chart.js, Plotly.js to build complex data visualization plots to enable efficient visualization of generated sensor data.
- Developed RESTful web services using Express and NodeJS. Usage of AJAX calls and JSON for faster responses.

**Full Stack Web Development Intern, Freastal Technologies, Kochi, India** June 2018 - August 2018

- Worked on developing a Custom WordPress theme (PHP) for a product-based company based in UAE.
- Content-Management System helped reduce maintenance costs of the company by more than 35%.
- Designed multiple page templates and a custom admin panel for regular maintenance.
- Received a full-time job offer as a Full Stack Web Developer upon completion of bachelor's degree.

## PROJECTS

**SellMyTech – salvage your used gadgets (React Native, Android & iOS application)** Spring 2021

- A marketplace application where users can buy or sell used tech gadgets with little to no effort.
- Platform independent application. Responsive across mobile devices/tablets of all resolutions and sizes.
- Over the Air (OTA) updates to enable quick fixes on the application without Play store/App Store review.
- Google Cloud Platform for authentication, storage, and extensive app analytics via Google Analytics 4.
- Integrated with Google Firebase, Google Maps and Google Places API.

**Boomerang – a full stack application to send out surveys (Node, React, Redux, Express and MongoDB)** Fall 2020

- Enhanced authentication flow with Google OAuth authentication using passport.js strategies.
- Connect a front-end React application (with Redux architecture) to a NodeJS and Express backend.
- Communicate and transfer data to and from a remote MongoDB database (MongoDB Atlas) via mongoose.js.
- Handle credit cards and receive payments from users with Stripe.
- Version control using Git and deployment using Heroku, Vercel and Netlify.

**Blockchain-Chain of Custody (Python 3)** Spring 2020

- Built a program digitally equivalent to a chain of custody form used in forensic investigations.
- Designed a custom back-linked blockchain data structure for storing forensic evidences.
- Implemented functionalities like "Add", "Checkout", "Check-in", "Remove", "Verify" of evidences.
- Every action is registered, and a well-maintained log is kept thereby preventing tampering of evidence.

**Visualization and Analysis of Twitter Streams (JavaScript, d3.js)** Fall 2019

- Built a web application using D3.js for analysis of twitter streams from USA and SPAIN over a period of time.
- Helps create targeted advertisements for companies on social media channels by analyzing the twitter streams for any state on a particular date from the top hashtags, languages of tweets and peak hours of the day.
- Ability to judge the aftereffects of an advertisement by extensive Sentiment Analysis.

**KarmaTek 2k17 – the Annual Techno-Management Festival of GCECT** Spring 2017

- Fully Responsive Website. Extensive use of HTML5, CSS3, Bootstrap, JavaScript, jQuery, PHP & MySQL.
- Facilities for online registration & payments via "Instamojo" increased event participation by a huge 75%.
- Trending website for "Upcoming Events in Kolkata" on twenty19.com for a record two weeks.