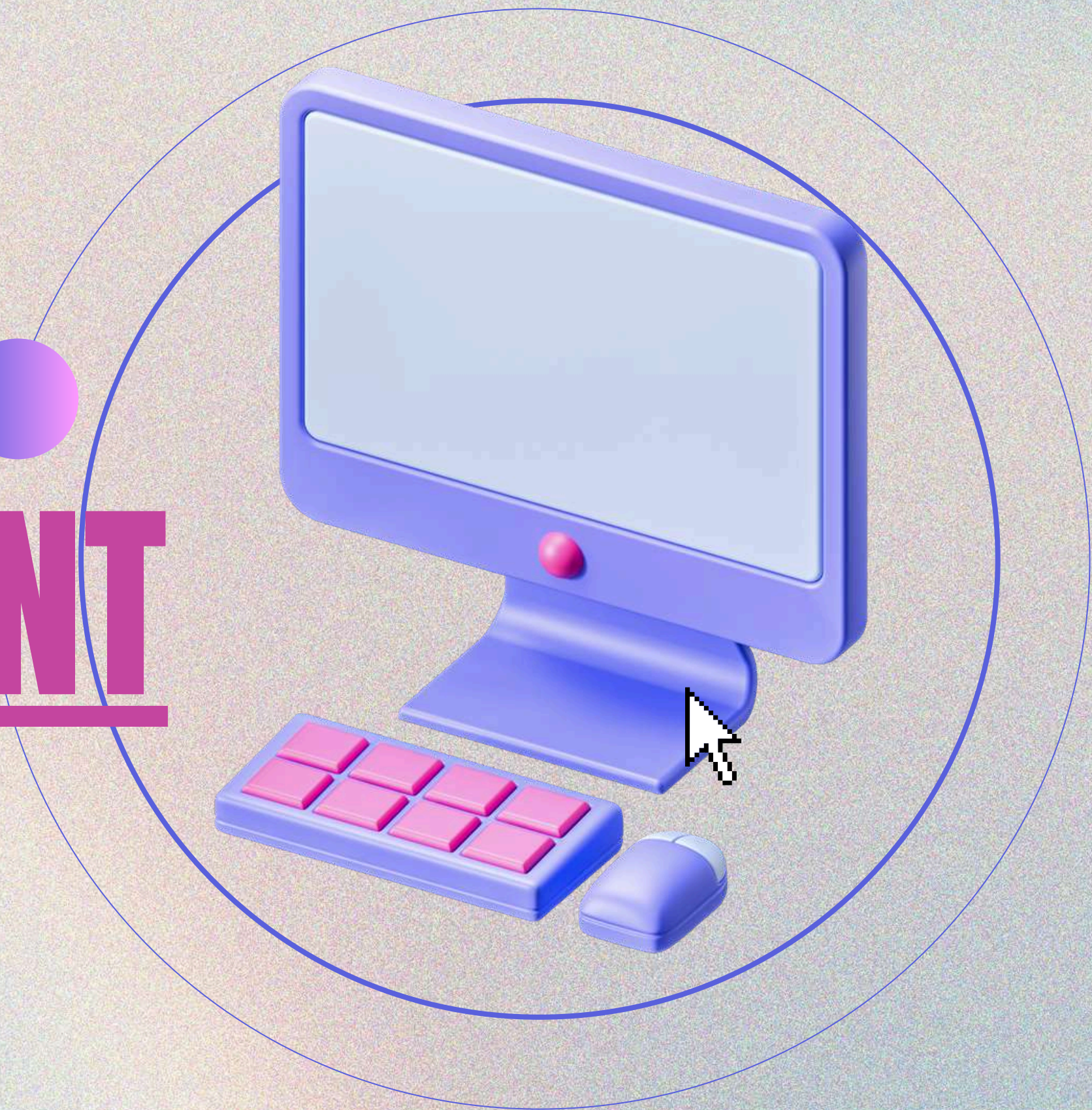


FULL STACK **WEB DEVELOPMENT**

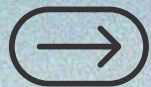
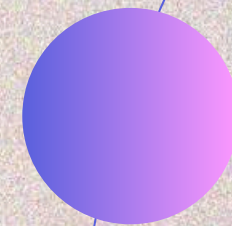


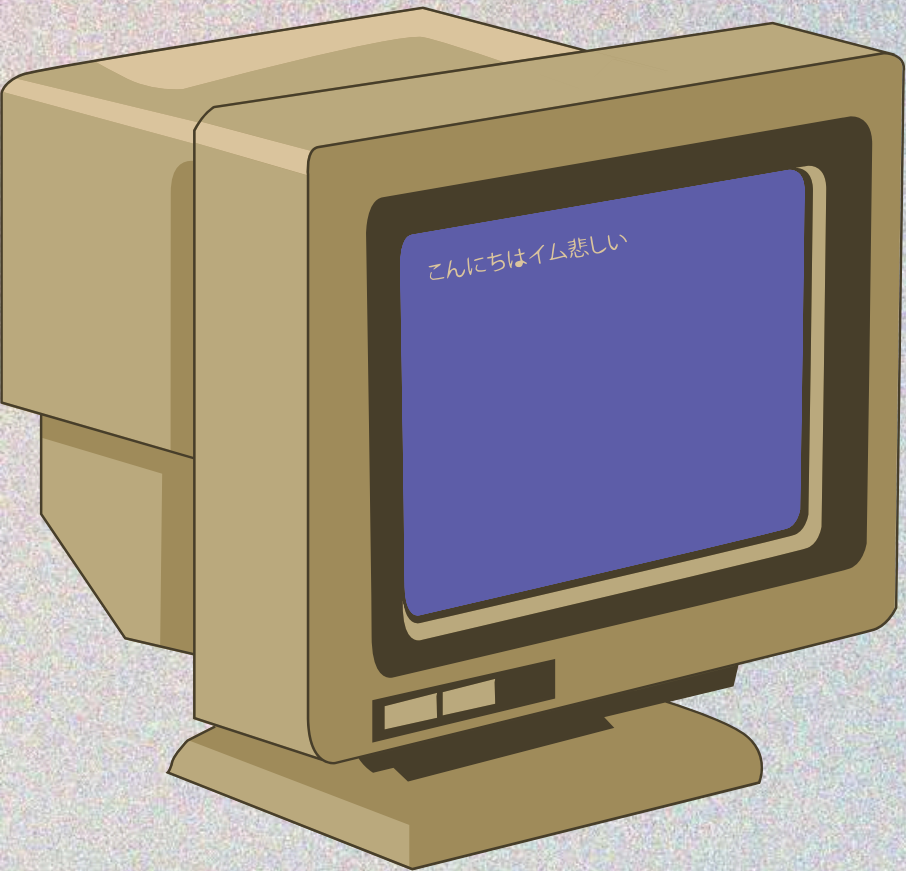
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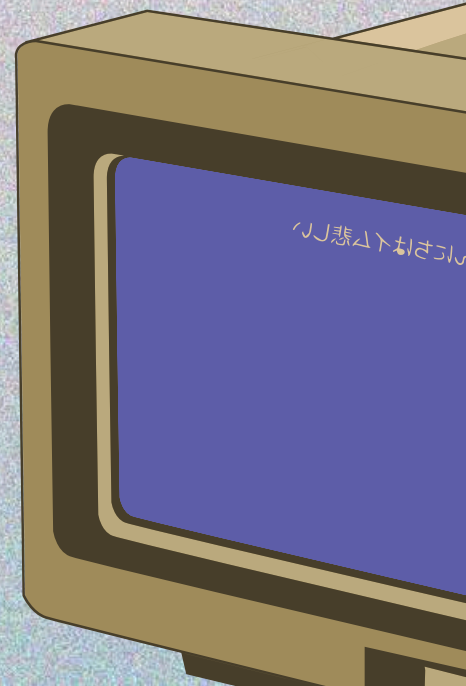
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INTRODUCTION TO BASIC WEB TECHNOLOGIES





- Introduction to Web Dev
- What is Web Servers
- Request & Response to Web Servers
- What is Web Pages
- HTML / HTML5
- CSS
- JavaScript / TypeScript
- Modern ES6 + Features
 - Promises, Async/Await
- JQuery
- BootStarp
- Material Design





FRONTEND FRAMEWORK

ANGULAR

CLIENT SIDE WEB DEVELOPMENT

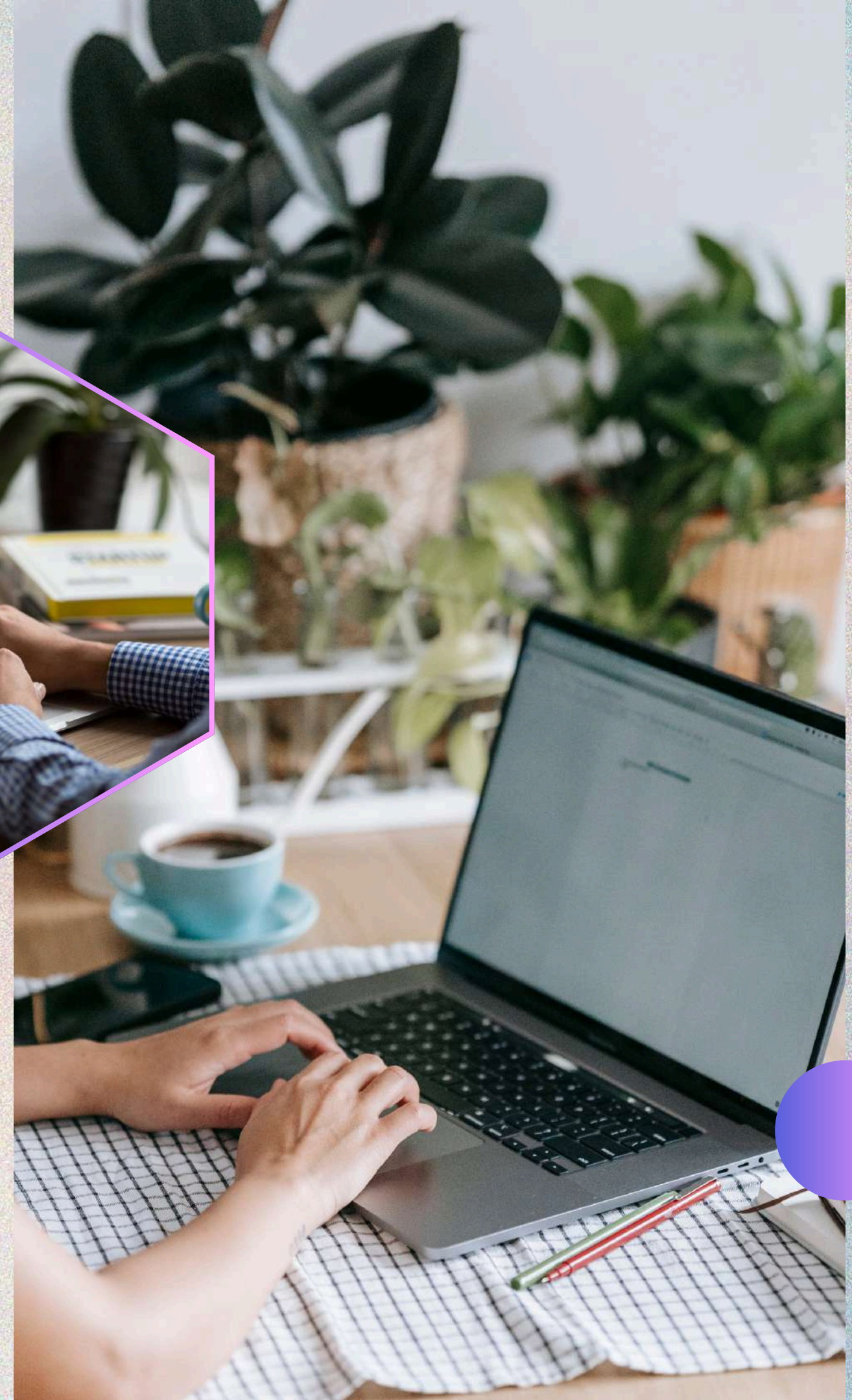
- Introduction to TypeScript
- Advanced TypeScript
- Introduction to Angular CLI
- Installation of Angular and NPM
- Angular Basics
- Angular Application lifecycle hooks
- Modules and Components in Angular
- Data Binding
- Inter-Component Communication
- Decorators
- Directives
- Routing
- Types of Routing
- Angular Development using Bootstrap
- Installation of Library
- Services & Dependency Injection
- Types of Forms in Angular
 - Template driven forms
 - Reactive forms
- Pipes
- Lazy Loading
- Server Communication using HTTP
- Deployment using AWS
- Testing

INTRODUCTION TO REACTJS

- Introduction to ReactJS
- ES6 Features
- Advanced JavaScript
- Styling & Layout
- DOM
- Original DOM & Virtual DOM
- Elements
- Components
- React Components with JSX
- Refactor
- App Setup
- Component Architecture
- Functional Components
- State Management
- Forms, Tables and Events
- Introduction to Redux
- Redux Store and Reducer
- Validation
- Stateful/Stateless Components
- Local Storage
- Routing/Parameters Routing/Guards
- Prop-Types and Lifecycle Methods
- Browser-Router and Link
- UI Setup
- Redux Dev Tools
- Calling Node API Service Calls

INTRODUCTION TO NODE.JS AND EXPRESS.JS

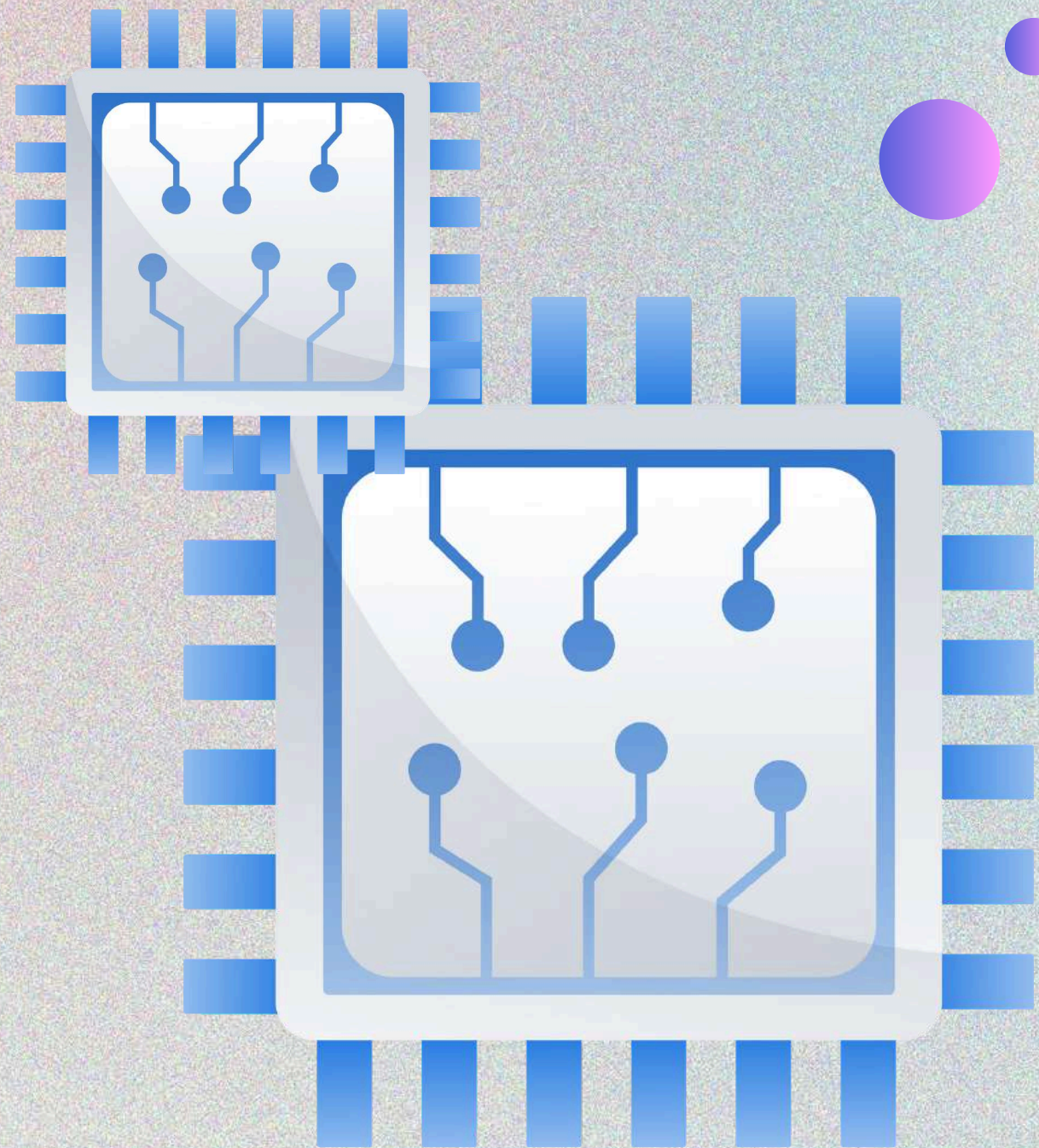
SERVER SIDE WEB DEVELOPMENT



INTRODUCTION TO NODEJS AND EXPRESSJS

- Introduction to NodeJS
- Installation of Node
- Introduction to ExpressJS
- RESTful API Development
- Express Server Setup
- CRUD Operation with MongoDB
- Authentication and Authorization (JWT)
- Middleware and Error Handling
- File Uploading and Data Validation
- Connection of Angular/ReactJS and Node application
- Testing and Debugging NodeJS Applications





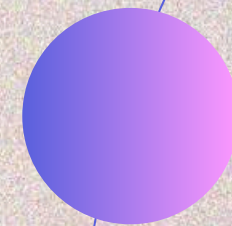
INTRODUCTION TO NOSQL DATABASES

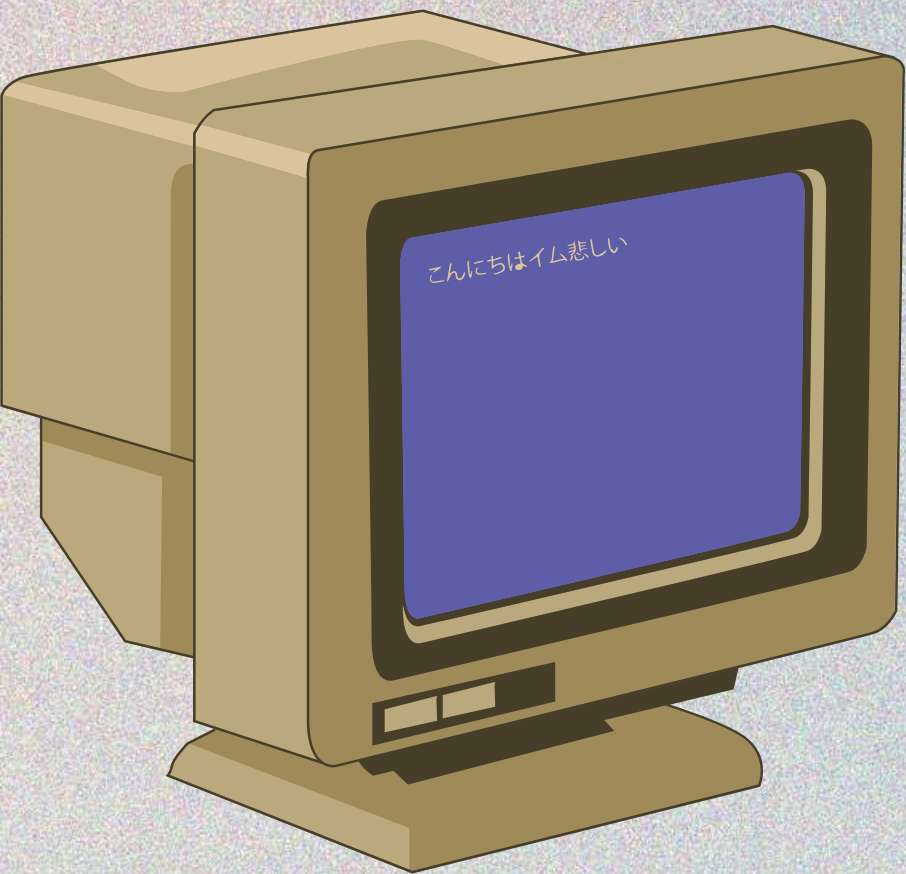
MONGODB



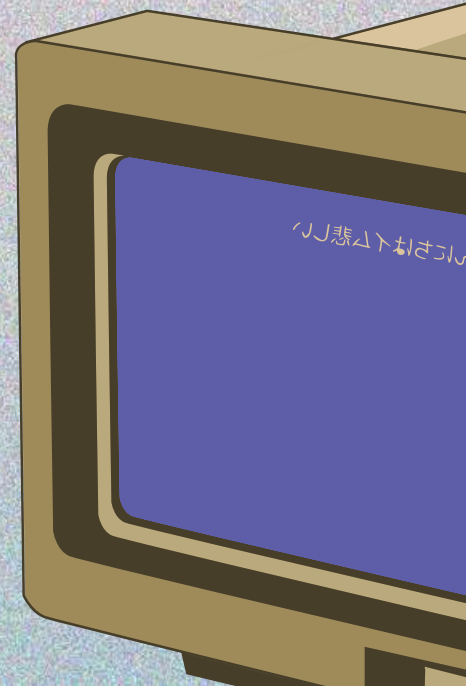
- Introduction to MongoDB
- Mongoose ORM for MongoDB
- Schema Design and Data Modeling
- SQL vs NOSQL Databases
- Data Relationships and Aggregations
- Data Manipulation
- MongoDB Architecture
- Installation of MongoDB Atlas and Compass
- Accessing Database through Atlas
- CRUD Operations
- Connection of NodeJS Application and MongoDB

INDUSTRIAL PROJECT DEVELOPMENT AND DEPLOYMENT





- Industrial Project Development
- Frontend Project in ReactJS/Angular
- Backend Project in NodeJS
- Connection of Frontend and Backend
- Project Deployment using AWS
- Introduction to Git/GitHub
- Steps to Create Git Repository
- Accessing Git for Angular and React Project.





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**THANK
YOU!**

Thank you for joining us on this journey through the evolution of computers. For further inquiries or collaborations, please feel free to contact us.