

# Utkarsh Nandy

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**Relevant Links:** [Linkedin](#) | [Github](#) | [Portfolio](#)

**Programming Languages:** Python, Java, C/C++, HTML, CSS, JavaScript SQL, MATLAB

**Frameworks:** Django, React (Next.js), Tensorflow, NumPy, Pandas, PyTorch, Express.js, Node.js

**Technologies:** Git, AWS (S3, ECS, RDS, SQS), REST, Docker, RTmaps

## EDUCATION

**University of California - Davis**

**June 2025**

- BS Computer Science

### Relevant Coursework

- OOP in C++, Computer Architecture, IoT Systems, Data Structures, Algorithms, Discrete Math, Probability & Statistics, Linear Algebra, Multivariable Calculus, Database Systems

## WORK EXPERIENCE

**Google Student Developer Club**

**September 2023 - Present**

*Associate lead - team Rainier*

Davis, CA

- Personal Aggie Wallet relies on QR code API minimizing the need for physical ID cards
- React-Native frontend and Node.js backend

**EcoCAR EV challenge**

**September 2022 - Present**

*Continuous autonomous vehicle engineer*

Davis, CA

- Python/C++ scripting for data logging and CAN bus data extraction streamlining relevant data search
- RTMaps diagram construction for sensor fusion based on Kalman filters reduced false object detection by 15%
- BSM simulation via V2X connectivity enabling safe and efficient communication
- 3D roadway/highway scenario development in Roadrunner (MATLAB) for vehicle sensor testing

## PROJECTS

**Navigation System | (C++)**

**2024**

- Dijkstra's algorithm to build OSM Navigation System
- Test-driven development with Google Test
- CMake for build, Docker for containerization

**Personal Portfolio Website | (React)**

**2023**

- Personal website highlighting skills and experience
- Deployed on Vercel