

ANIL KARAPA

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Experience

Software Application Developer

June 2024 – Dec 2024

[ILCC Philadelphia](#) || *React, JS, TDD, Docker, GitHub Actions, RESTful APIs*

Philadelphia, PA

- Built accessible web solutions adhering to WCAG 2.1 standards, integrating automated CI/CD pipelines via Docker Containers & GitHub Actions to reduce deployment latency by 60% and ensure code stability
- Designed and optimized a modular UI library of 15+ TypeScript/React components, utilizing TDD methodologies to decrease bug density and achieving a 98/100 Lighthouse performance score

Developer & Technical Writer

Nov 2022 – Sep 2023

[WriteRight](#) || *Python, Git, Agile, Integration Testing, Content Automation*

Remote

- Developed a Python-based content automation workflow system script to replace manual processing, reducing delivery time from 3 days to 4 hours (95% efficiency gain) processing 500+ content pieces weekly
- Led a team of 4 through Agile sprints to deliver web application features and maintenance, with Git branching strategies, code reviews, and standardizing integration testing and deployment protocols.

Relevant Projects

PHLASK Ecosystem Map | *React, JS/TS, Docker, Figma, Open Source*

Aug 2025 – Present

- Refactoring Figma UI components into modular TypeScript architecture and integrating form validation with map-layer state synchronization to ensure reliability of crowdsourced resource submissions.
- Optimizing component-level rendering logic and API request handling to minimize map re-render cycles and standardize data-fetch consistency for public resource listings. [Source Code](#) | [Live Application](#)

Raindrop Food Ordering System | *React, TypeScript, SQL, MongoDB, Redis*

Aug 2024 – Sep 2024

- Implemented React-based ordering flows and Square API endpoints while integrating Redis caching to minimize menu retrieval and order-processing latency.
- Developed order, cart, and payment workflows using Node.js and SQL/MongoDB schemas to process over 30,000 orders, achieving a GTmetrix Grade A (99% performance). [Source Code](#) | [Live Application](#)

Philly Geospatial Analysis | *R, Leaflet.js, RESTful APIs, Data Visualization*

Jan 2024 – May 2024

- Normalized 17,000+ crime records using R with dplyr to generate structured datasets for geospatial mapping of 10-year crime trends.
- Developed an interactive Leaflet visualization layer connected to REST API endpoints to surface incident clustering patterns. [Case Study](#)

Education

Drexel University

September 2025

[Master](#) of Science in Computer Engineering & Cybersecurity (GPA: 3.91/4.00)

Philadelphia, USA

- Elected Student Body Vice President, represented 8,000 students; managed a \$600,000 annual budget.
- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Design, Software Development, Cloud Technology, Web Services, Applied Artificial Intelligence, Security Engineering

ANITS

May 2022

[Bachelor](#) of Technology in Computer Engineering (GPA: 3.54/4.00)

Skills & Certifications

Programming Languages: JavaScript (ES6+), TypeScript, Python, Java

Frontend: React, Next.js, Redux, HTML5, CSS3, TailwindCSS

Backend: Node.js, Express.js, RESTful API, Web Services, Webhooks

Databases & Cloud: SQL, MongoDB, AWS (EC2, EKS, IAM, S3, RDS, API Gateway, CloudFront), Redis

Tools & Automation: Git, CI/CD (Jenkins, GitHub Actions), Docker, Kubernetes, Postman, Jira, Grafana

Certifications: [AWS Certified Solutions Architect Associate](#)