

ANIL KARAPA

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Experience

Software Application Developer <i>ILCC Philadelphia</i> React, JS, TDD, Docker, GitHub Actions, RESTful APIs	June 2024 – Dec 2024 Philadelphia, PA
<ul style="list-style-type: none">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 stabilityDesigned 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 <i>WriteRight</i> Python, Git, Agile, Integration Testing, Content Automation	Nov 2022 – Sep 2023 Remote
<ul style="list-style-type: none">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 weeklyLed 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 <i>Master</i> of Science in Computer Engineering & Cybersecurity (GPA: 3.91/4.00)	September 2025 Philadelphia, USA
<ul style="list-style-type: none">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 <i>Bachelor</i> of Technology in Computer Engineering (GPA: 3.54/4.00)	May 2022
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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](#)