

Peter Dokyung Yuk

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EDUCATION

Purdue University

Bachelor of Science in Computer Science (Software Engineering)

West Lafayette, IN

May 2026

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL

Frameworks & Libraries: React.js, Express.js, Flask, scikit-learn, OpenCV, YOLOv11

Platforms & Tools: Node.js, MySQL, SQLite, AWS S3, Playwright, WebSockets, Git

PROFESSIONAL EXPERIENCE

SingularX

Software Engineer → Technical Lead (February 2026)

West Lafayette, IN (Remote)

November 2025 - Present

- Led CityLink development with React, Node.js, and Express.js, building a launch-ready platform for permit, AI-screening, and code-enforcement workflows
- Migrated legacy records into indexed search for county workflows
- Built a reusable AI-assisted development harness with codebase-aware context, specialized agents, persistent engineering memory, and automated validation gates

CSI Vision

Forward Deployed Software Engineer

Gwanggyo, South Korea

May 2025 - July 2025

- Engineered a real-time Python pipeline using YOLOv11, OpenCV, and a WebSocket server to stream object coordinates to Unity at sub-50ms response time
- Automated calibration to cut on-site setup to 30 minutes, enable 5 same-day client demos, and reduce restaurant client setup time by 70%

Naver Cloud

Software Engineer Intern

Pangyo, South Korea

June 2023 - August 2023

- Shipped internationalization pipelines for 3 new languages (English, Mandarin, Vietnamese), expanding support to 100,000+ global users and resolving UTF-8 character-encoding edge cases

PROJECTS

Value Indiana | valueindiana.com

Python, Flask, MySQL, scikit-learn, JavaScript

November 2025 - Present

- Developed a Flask web platform live in 5 Indiana counties, using MySQL and scikit-learn for property-parcel search, regression-based valuations, and PDF reports
- Designed parcel database schema, CSV imports, and indexed queries for sub-200ms lookups
- Built interactive valuation workflows with editable comparable-property grids, session-based user overrides, token-gated analysis, and automated report generation

JobHawk

Python, SQLite, Playwright, Google APIs

July 2026 - Present

- Built a Python and SQLite job-application system with Greenhouse and Lever discovery, evidence-bound fit scoring, tailored resume generation, and application tracking
- Implemented visible-browser form assistance that fills verified fields and stops for human review on CAPTCHAs, unknown required fields, or automation restrictions

HackHarvard 2025 - Votify | github.com/dylandrozario/Votify

Node.js, Python, Express.js

October 2025

- Orchestrated a 3-model workflow with Gemini, Perplexity, and Llama using Node.js, Express.js, Python, and REST APIs to cross-validate political commitments against source documents
- Processed 25+ source documents through 500+ model requests, linking 99% of political commitments directly to their supporting source documents