Lal Pek Kim

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EDUCATION

University of Indianapolis | Indianapolis, IN **Aug. 2024 - May. 2026**
Bachelor of Science in Computer Science **GPA: 3.94**

SKILLS

Programming Language: Python, C, C++, C#, SQL, Javascript, Typescript, PHP, Java, Matlab, Lisp
Frontend Development/Frameworks: HTML, CSS, Svelte, React
Backend & Runtime Frameworks: Flask, Node.js
Databases & Data Tools: MySQL, SQLite, Firebase, Power BI, SAP, PostgreSQL
Cloud & DevOps Tools: Azure Databricks, Azure DevOps, Git, AWS (Lambda, foundational services)

PROJECTS

KSPT Curricular Map App (University of Indianapolis) **Aug. 2025 - Now**
Assistant Project Manager *R.B. Annis School of Engineering, University of Indianapolis,* Indianapolis, IN

- Served as Associate Project Manager, leading client communication, clarifying requirements, and coordinating deliverables to ensure alignment between faculty stakeholders and the development team.
- Integrated AI-powered APIs to process and analyze curriculum documents, supporting automated mapping of course objectives to CAPTE accreditation standards.
- Designed and supported database workflows with memory caching strategies to improve performance, reduce redundant processing, and enable efficient retrieval of accreditation data

Google Events Management System (University of Indianapolis) **Aug. 2025 - Dec. 2025**
Full-Stack Developer *R.B. Annis School of Engineering, University of Indianapolis,* Indianapolis, IN

- Contributed to a full-stack event management system implementing role-based access control (admin, organizer, user) using Firebase Authentication and Firestore.
- Developed and integrated frontend and backend components with SvelteKit (TypeScript) and FastAPI (Python), following RESTful API patterns and shared data models.
- Implemented and tested features using mock APIs, Firebase emulators, and Agile sprint workflows, ensuring seamless Google Calendar synchronization and reliable team handoffs.

Air Pollutant Sensor (University of Indianapolis) **Aug. 2024 - Dec. 2024**

- Researched air pollution monitoring technologies and evaluated sensor types, data acquisition methods, and potential deployment scenarios.
- Designed conceptual system architectures and workflows to model sensor data collection, processing, and analysis pipelines.
- Applied Six Sigma methodology to analyze process flow, identify inefficiencies, and refine system design for reliability and consistency.

WORK EXPERIENCE

University of Indianapolis **Aug. 2025 - Now**
Teacher Assistant for CSCI *Indianapolis, IN*

- Provided technical support for courses in Data Structures, Introduction to Object-Oriented Programming, and Introduction to Programming, reinforcing core concepts such as arrays, linked lists, stacks, queues, recursion, and class-based design.
- Assisted students with debugging, algorithmic problem-solving, and improving code correctness, efficiency, and readability across multiple programming assignments.
- Reviewed and evaluated student code, delivering targeted technical feedback and collaborating with instructors to align support with course learning objectives.

Yamaha Marine Precision Propeller **June. 2025- Aug. 2025**
Engineer Intern *Greenfield, IN*

- Conducted detailed time studies across manufacturing processes to evaluate workflow efficiency, performance consistency, and operational variation within production systems which provide parts for Yamaha Marine products manufactured globally.
- Analyzed validated process timing and material usage data for propeller production, supporting updates to standard production times in SAP for operations tied to facilities producing 100,000+ stainless-steel marine propellers annually.
- Documented findings and collaborated with engineers and production staff to update and analyze process timing datasets, enabling evaluation of performance changes following the introduction of robotic automation on previously labor-intensive processes.

SERVICES

International Student Association (Orange Coast College) **Aug. 2023 - May. 2024**
Director of Communications

- Led the organization's communication strategy by planning, coordinating, and executing outreach across multiple platforms to support organizational goals.
- Managed messaging and external communications to clearly convey the association's mission, initiatives, and events to a diverse audience.