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Lowell, MA

# David Kong

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david-kong-portfolio

## Education

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### University of Massachusetts Lowell

May 2028

*Bachelor of Science in Computer Science*

*Lowell, MA*

- **GPA: 3.3** | Dean's Excellence Scholarship
- Coursework: Object-Oriented Programming (C/C++), Data Structures & Algorithms, Calculus 1, Logic Design, Discrete Structures I

## Technical Skills

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

**Frameworks/Libraries:** React, Tailwind CSS, Node.js, Next.js, Pandas, NumPy, Plotly

**Developer Tools:** Git, GitHub, VS Code, Linux, Docker, MySQL, GCP

**Certifications:** Google IT Automation with Python

## Work Experience

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### UMass Lowell Registrar's Office

Sep 2025 - Present

*Database Management & Social Media Intern*

*Lowell, MA*

- Streamline student document processing by leveraging Salesforce and Softdocs **AI-powered** systems, testing imports, and validating data integrity to improve workflow efficiency and reduce manual workload by **30%**.
- Audit **500+** paper and virtual document scans within Salesforce case workflows by performing quality control checks and generating discrepancy reports, ensuring accurate and complete student records.
- Lead the Registrar's Office Instagram content strategy for **15,000+** accounts, utilizing **AI-based image generation** to scale branded content while analyzing engagement metrics to increase engagement rate by **35%**.

## Projects

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**ApplyFlow** | *JavaScript, Chrome Extensions API, Google Sheets API, OAuth2, GCP*

Mar 2026

- Created a Chrome extension that detects and parses job postings directly from the page, extracting key fields and saving them to a user's Google Sheets in a single click, reducing job application tracking time by **90%**.
- Improved data extraction accuracy via a **DOM-based** parser that auto-detects fields (company, position, location, compensation, URL) with real-time duplicate detection to prevent redundant entries.
- Built on **Chrome Manifest V3** with Vanilla JS, leveraging **Google Sheets API** for live spreadsheet writes and **OAuth2** via **Google Cloud Platform** for secure, token-based Google authentication.

**CleanFi** | *Python, Streamlit, Pandas, NumPy, Plotly*

Sep 2025

- Developed a web application that processes and standardizes bank statement CSVs, automatically cleaning and transforming raw financial data into analysis-ready formats.
- Implemented a data pipeline using **Pandas** and **NumPy** to handle multiple bank formats, normalize transactions, and auto-categorize spending patterns, reducing manual data cleaning time by **80%**.
- Built an interactive **Streamlit** interface with tabbed views and **Plotly** visualizations, enabling users to quickly identify spending trends and key metrics, improving financial decision-making.

**SetLens** (In Progress) | *Python, Streamlit, OpenCV, YOLOv8, NumPy*

Mar 2026

- Developing a computer vision application using **YOLOv8** and **OpenCV** to process volleyball footage, tracking set trajectories in real time and overlaying ball paths onto the video feed.
- Extracting frame-by-frame positional data to generate analytical stats such as arc height, speed, and release point, providing coaches and players with actionable insights for player development.

## Leadership

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### IGNITE | Secretary & Founding E-Board Member

Jan 2026 - Present

*UMass Lowell Club*

*Lowell, MA*

- Developing and maintaining IGNITE's club website, featuring a live event calendar, workshop resources, and announcements to centralize member engagement and streamline club communications.
- Collaborating with executive board members using Agile methodology to curate technical workshops, coordinate communications, and document **10+** meetings per semester.