

# LINCOLN LI

kaiming.lincoln.li@gmail.com | linkedin.com/in/lincoln-li | github.com/vivalkm

## EDUCATION

---

**University of Pennsylvania School of Engineering and Applied Science** Philadelphia, PA  
*Master of Computer and Information Technology, GPA 4.0/4.0* May 2024

- **Core Coursework:** Software Development, Discrete Mathematics, Computer Systems, Data Structures & Software Design, Algorithms & Computation, Artificial Intelligence, Big Data Analytics, Natural Language Processing

**UCLA Anderson School of Management** Los Angeles, CA  
*M.B.A., Corporate Finance & Investment Management, GPA 3.9/4.0* June 2018

- Anderson MBA Honor Society; J. Fred Weston Award (Top 1 in Finance specialization); Dean's Scholar; Dean's List

**Cornell University Weill Graduate School of Medical Sciences** New York, NY  
*Master of Science, Cell and Developmental Biology, GPA 3.9/4.0* January 2013

**Nankai University** Tianjin, China  
*Bachelor of Science, Biological Sciences, GPA 90/100, top 1% in class* June 2010

## TECHNICAL SKILLS

---

- **Programming Languages:** Java, Python, JavaScript, C, Kotlin, Ruby
- **Databases:** SQL, MongoDB, Neo4j
- **Data Analytics:** Pandas, NumPy, Apache Spark, Scikit-learn, PyTorch, advanced Excel modeling
- **Web Development:** React, Express, Flask, Node.js, HTML, CSS, Bootstrap, Tailwind CSS
- **Cloud:** AWS (Lambda, S3, RDS, EC2, EMR, Lex, Polly, QuickSight, SageMaker), Firebase

## PROJECTS

---

**Stork** / *React, Firebase, AWS S3, Tailwind CSS* / [Demo](#) / [GitHub](#) August 2023

- Developed a serverless single-page web application for yard sales, allowing users to easily list and edit items, browse available items, and contact sellers, streamlining the process of organizing and participating in yard sales
- Built a responsive frontend using **React** and **Tailwind CSS**, and created customized React components for visual consistency and optimal user experience across various devices
- Implemented a serverless backend using **AWS** and **Firebase**, incorporating **AWS S3**, **Firestore** and **Cloud Storage** for scalable NoSQL cloud databases, and leveraging **Firebase Authentication** for user authentication and authorization

**AWS Resource Helper Bot** / *AWS lambda, S3, Lex, Polly, CloudFront* July 2023

- Collaborated with Amazon BIE team and built a chatbot to manage AWS resources via text and voice commands, simplifying complex AWS configurations across diverse resource consoles
- Developed and tested all **AWS lambda** functions to handle user requests through chat messages to execute a range of actions in AWS resource management, such as creating/deleting EC2 instances, S3 buckets and objects, etc.
- Leveraged Amazon **Lex** natural language understanding and speech recognition to enhance user engagement and interaction within AWS ecosystem, and enabling users with visual impairments to efficiently manage AWS resources
- Deployed the application using **AWS S3** and **CloudFront**

**KidsFun** | *Express, Node.js, HTML, CSS, Bootstrap, MangoDB, Cloudinary* / [Demo](#) / [GitHub](#) September 2022

- Built a web application using **Express** and **Node.js** to help parents search and share kid-friendly outdoor activities
- Implemented user authentication and authorization functionality using **Passport.js**, allowing users to create accounts, post and edit activities, images, locations and reviews
- Utilized **HTML**, **CSS** and **Bootstrap** to design and implement a responsive and visually appealing user interface
- Integrated **MongoDB** as the database management system, ensuring efficient and scalable data storage and retrieval

**Philadelphia COVID Vaccination and Property Data Interface** | *Java, JUnit* / [GitHub](#) August 2022

- Built a **Java** application that parses and analyzes COVID vaccination and property data in CSV and JSON formats
- Developed a CSV parser using state machine and utilized N-tier architecture for data reading, processing, and UI
- Utilized GitHub for version control and collaborative development

**MCIT Student Management System** | *Java, JUnit, MySQL* March 2022

- Developed a CLI application using **Java** for UPenn MCIT students and faculty to manage course schedules, enrollments, course withdrawal, and grades reporting
- Implemented database with **MySQL** and applied test-driven development framework using **JUnit**

- Designed and implemented a 2D tile-based game in **Java**, utilizing pseudorandom generation to create a dynamic and engaging gameplay experience
- Implemented various game mechanics, including player movement, enemy AI, collision detection, and scoring system, using object-oriented programming principles

## WORK EXPERIENCE

---

### Amazon.com

Seattle, WA

#### *Finance Manager, Business Analytics & Automation*

July 2018 – Present

- Implemented automated monthly financial planning, reporting and analysis processes via designing and optimizing complex **SQL** queries, **data models**, and **ETL** processes, resulted in savings of 5,000+ working hours annually across Finance and Accounting teams, and improved forecast accuracy from 85% to 99%
- Conducted supervised learning analysis with **Python**, **pandas**, and **SQL** to quantify the ROI of a \$600MM incentive initiative, leading to optimized strategies for motivating delivery partners in improving safety, delivery quality and reliability
- Built a web app using **Python** and **Flask** to extract competitor's wage rates from external job posting websites, reducing data collection time by 99%, and enabling proactive evaluation of capacity and wage risks
- Developed classification models, including KNN, random forests, and neural networks with **scikit-learn** and **PyTorch** to predict product substitutability, ranked top 3 among 30+ Data Scientists and SDEs in Amazon Machine Learning Contest
- Established uniform demand analytics model using **Python**, proposed and implemented a multi-pack distribution strategy, reducing distribution cost by 50% and improving customer experience metric by 45%
- Developed 50+ **AWS QuickSight** and **Tableau** dashboards, driving data democratization and empowering non-Finance teams to self-serve their financial and operational data needs
- Promoted from Senior Financial Analyst in 2022, consistently rated "Top Tier" (top 20%) in annual performance reviews, and received *Consumables Kudos* recognition for going above and beyond and contributing outside the scope of normal job duties

### Ernst & Young

Beijing, China

#### *Senior Consultant, Transaction Advisory Services*

September 2015 – June 2016

- Provided financial and strategical advice across M&A transaction including due diligence and post-deal integration

### PricewaterhouseCoopers

Tianjin, China

#### *Associate, Assurance*

October 2013 – September 2015

- Conducted financial analysis and internal control testing, ensuring accurate reporting of financial statements

## ADDITIONAL

---

- *Certifications:* Applied Data Science (University of Michigan)  
AWS Certified Cloud Practitioner  
Android Development in Kotlin (CodePath)  
CFA Charterholder (CFA Institute)  
CPA (California Board of Accountancy)  
FRM (Global Association of Risk Professionals)