

PUNN KAM

☎ 858-868-1569 ✉ pkamolya@gmail.com 🌐 github.com/punnkam

Education

University of California, San Diego

Expected Graduation: Jun. 2023

BS in Computer Science

La Jolla, CA

- **Major GPA:** 3.9/4.0 **Overall GPA:** 3.8/4.0
- **Relevant Coursework:** Advanced Data Structures, Software Engineering, Discrete Mathematics, Operating Systems, Component Design, Computer Organization & Systems Programming, Calculus for Engineering, Linear Algebra
- **Clubs:** Blockchain at San Diego (Founder and Engineering Lead), ACM, Triton Rubik's Cube, Triton Poker

Experience

Euler Labs

Sep. 2022 – Present

Solidity Engineer

Remote

- Designing Automated Market Maker (AMM) to provide a manipulation-resistant price oracle for \$150M+ of deposits.
- Simulating performance of AMM curve against current incumbents using over 100M trading events for various tokens.
- Devised new Solidity smart contracts to time-lock liquidity tokens and distribute token rewards for liquidity providers.

Google

Jun. 2022 – Sept. 2022

Software Engineering Intern

Mountain View, CA

- Integrated Ads Onebox for keyword queries of 4M+ unique advertising customers with projected 11% revenue increase.
- Implemented a low-latency cache lookup to meet 200 ms latency requirement using bloom filters in server middleware.
- Updated keyword data cache for 10B+ Ads keywords using a borgcron job and a load-balancer to smooth out Rpc calls.

Scripps Institute of Oceanography

Nov. 2021 – Jun. 2021

Software Engineering Intern

San Diego, CA

- Implemented communications network for semi-autonomous oceanic research device maintaining 99.9% uptime at sea.
- Coordinated thread-scheduling for 7 active sensors which asynchronously monitor ocean conditions and capture images.
- Decreased SSD storage utilization by 60% by developing a quality-control filtering pipeline during image capture stage.

Siam Commercial Bank

Aug. 2020 – Nov. 2020

Data Science Intern

Bangkok, Thailand

- Increased success rate of micro-loan recall by 14% by using classification and clustering algorithms and alternative data from several sources to calculate loan repayment likelihood for 3M+ borrowers across various lending channels.
- Engineered features and improved model performance (AUC) by 22% using correlation and dimensionality reduction.
- Analyzed performance of ML generated leads and discovered data engineering discrepancies affecting 3 existing models.

Kiatnakin Phatra Securities

Jul. 2019 – Aug. 2019

Software Engineering Intern

Bangkok, Thailand

- Improved operational efficiency by 20% by creating Python scripts that automatically compile and store PnL results.
- Developed back-testing pipelines to measure return metrics, maximum draw-down, and Sharpe ratio of three low-mid frequency trading algorithms on four years of OHLC data using Python backtesting library - Backtrader.
- Integrated detailed C++ logging for high-frequency trading algorithms and decreased average debug time by 20 min.

Projects

Semicolon Finance 📄 | Solidity, Chainlink, Superfluid

July. 2022

- Payments streaming platform based on protocol KPIs for DAO contributors using ERC721s and Superfluid.

Home-service Marketplace 📄 | React, Node.js, Express.js, MongoDB

Jun. 2021

- Platform that connects 30+ home-service businesses with 100+ homeowners through an interactive job board.

Crypto Trading Bot 📄 | Python, Pandas, NumPy, CCXT

Jan. 2021

- Returned 28% in 2021 arbitraging spot-futures premium of crypto perpetual futures on centralized exchanges.

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript/TypeScript, SQL, Solidity, Rust

Tools and Frameworks: React, Node.js, Express, Apache Spark, Matplotlib, MongoDB, Firebase, AWS, GCP