RYAN PHUA

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EDUCATION

University of California, Los Angeles (UCLA)   **Los Angeles, CA**
Bachelor of Science B.S, Computer Science (Junior)   *Expected June 2024*

EXPERIENCE

Defence Science Organization (DSO)   **Singapore, Singapore**
Software Engineering Intern   *November 2020 - April 2021*
- Collaborated with team of engineers to implement deep-learning algorithms for anomaly detection, achieved 95% test set accuracy
- Trained ML models with Tensorflow using custom distributed training protocols; parallelized model training across 4 separate GPU systems
- Constructed Linux Shell scripts to automate training & transfer data from GPU servers to client-side application
- Developed frontend functionality for client-side application with Docker & React.js; experimented with Agile project management as co-Scrum master for development team

The Daily Bruin @ UCLA   **Los Angeles, California**
Frontend Web Developer   *September 2021 - Present*
- Maintained software functionality across React frontend codebase; required detailed understanding of internal structure of UI
- Converted Figma UX Designs for AAPI month into functional frontend code using React.js & CSS Flexbox
- Upgraded legacy frontend code; replaced lifecycle functions with React Hooks and standardized CSS libraries
- Improved site render speed by 15% through removing inefficient Promises and re-scheduling execution-blocking tasks

BruinCreates @ UCLA DevX   **Los Angeles, California**
Frontend Web Developer   *September 2021 - Present*
- Developed Profile page for E-commerce marketplace web application in React.js; utilized Redux for global state management
- Integrated backend APIs in Java Springboot to frontend interface; created general data-parser to sanitize query response data

Go2F (Freelancer Job Hunting Site)   **Los Angeles, California**
Software Engineering Intern   *April 2022 - September 2022*
- Converted Figma UX page designs into functional frontend code using React.js and MaterialsUI CSS library
- Implemented REST API style login/signup system using React frontend and Django backend

PROJECTS
- Super Peach Sisters: Object-oriented programming in C++; built replica of Super Princess Peach video game using encapsulation, polymorphism and multi-level inheritance

TECHNICAL SKILLS
- Programming Languages: Python, C++, Java (Basic), Javascript, Typescript, HTML5, CSS
- Frontend Skills: React.js (Hooks & Lifecycle Components, Routing, Redux), CSS Libraries (MaterialsUI, Flexbox, Grid Layout), Authentication (JSON Web Token, OAuth2)
- Backend Skills: Node.js, Express.js, Flask, Django, Java Springboot, Heroku, Docker
- Databases: MongoDB, MySQL, Redis (In-Memory Caching)
- Data Science & Machine-Learning: Python (Pandas, Numpy), R Studio, Tensorflow, Data-Visualization
- IDEs & Version Control: Git, Visual Studio, Visual Studio Code, PyCharm, CLion
- Project Managment: Agile Scrum Methodology

CERTIFICATIONS
- HarvardX Professional Certificate in Data Science (2020)
- IBM Python for Data Science and AI (2020)