JUSTIN LLOYD

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ACCOMPLISHED LEAD ENGINEER

I make real products that people use. Beautifully designed. Practically built. Integrated with intelligent software that enables a seamless, connected experience.

EXPERIENCE

STEALTH STARTUP, San Francisco, CA (Remote)

2021/09 – Present

Computer Vision Lead

Working on computer vision algorithms. Full body tracking. Structure from Motion. Multiple view geometry. Hand tracking. Facial feature tracking. Sensor fusion. TensorFlow. Python. C++. Rust. Neural networks. Model training. Low-level hardware interfacing. 3D rendering. Parallel programming. Game development.

It's a lot of fun. I'll talk about it someday.

ERICSSON, Los Angeles, CA

2020/04 - 2021/09

Technical Lead / Lead Firmware Engineer

- Collaborate closely with a cross-functional team and product development managers on new 5G FWA (Fixed Wireless Access) routers.
- Build smart contracts on the Ethereum blockchain
- Board bring-up and firmware programming for three different hardware router SKUs using C, C++, Rust, Lua, Python, Solidity and Linux
- Reduce build times for the different firmware SKUs from 15+ hours to 20 minutes.
- Create an After Effects plugin to export animation data for embedded computer's custom designed display and the status LEDs
- Direct hiring of technical team members & lead a small development team

WAYFORWARD TECHNOLOGIES, Los Angeles, CA

2017/01 - 2020/04

Problem Solver / Lead Programmer

- AR developer, game developer, pipeline engineer, server engineer & DevOps
- Create studio-wide, distributed, virtualized CI/CD pipeline for 80+ SKUs across eight platforms.
- Scale studio pipeline from building four SKUs to building dozens of SKUs in parallel in less time
- Decrease build time per SKU from 5+ hours to under 10 minutes.
- Develop client- & server-side mobile app: location awareness, custom sensor infusion, Blockchain, point-of-sale, order processing, machine learning & computer vision in unreliable, marine network environment
- Lead development of client- and server-side cross-platform, real-money, casual-friendly games
- Contributions to more than a half-dozen separate projects in a variety of roles and skills

Head of Engineering / Founder

Hire, build, lead, direct, coach and mentor diverse, mid-sized (30+), cross-functional design & engineering team. Company acquired by Accenture. Started small and grew from there.

- Develop & optimize native, network connected, cross-platform, OpenGL VR entertainment app
- Deep learning pattern recognition to reduce fraudulent casino transactions by 95+%
- Computer vision and machine learning prototypes for a CNC robotics system for IKEA
- Computer vision framework, deep learning and object recognition system for expenses app
- Computer vision to process medical data measured in the trillions of data points
- Computer vision/object recognition and SLAM algorithms for HoloLens

FACEBOOK, Los Angeles & Menlo Park (Hybrid Remote)

2013/12 - 2016/03

Mobile Platform Low-Level Engineer / Corporate Trainer

- Working as a team-independent subject matter expert and low-level software engineer
- Board bring-up of Android and Linux up on new hardware in development
- Developing device drivers at the lowest levels of the operating system
- Developed a number of tools to help teams realize their goals.
- Develop courseware for corporate training
- Deliver in-depth, weeklong, corporate training to senior engineers on more than 60 occasions
- Class sizes averaging around 40 engineers.
- Classes were rocket-science level, deep-dives in iOS, Android & Linux

EBAY / Machine Learning Engineer	2013/05 - 2013/12
ASYLUM LABS / CTO & Co-Founder	2012/09 - 2013/05
SONOSIM / Chief Technology Officer (Acquired by GE)	2011/01 - 2012/09
BLIZZARD ENTERTAINMENT / Machine Learning Engineer	2010/02 - 2010/12
INFINITE MONKEY FACTORY / CTO & Founder	2001/10 - 2010/01

EDUCATION/TRAINING

Masters Computer Science / Software Engineering

Artificial Intelligence

Business Administration (in-process)

Bachelors Computer Science

Diplomas: Electronics • Culinary Arts (Baking & Pastries) • Graphic Design • Mathematics • Photography • PMP • International Business Law • Tax Law • Intellectual Property Law • Economics • Accounting

Post-Graduate Studies & Certificates: Chartered Financial Accounting • Enterprise Software Development Project Management • Lean Project Management • Marketing • Growth Hacking • Social Media Marketing • Electronics & Circuit Design • Restaurant Studies

Other Certificates: Management Accounts • Commercial Business Law • Social & Economic History of Europe • Public Speaking • Writing • Certified Agile Practitioner & Trainer • Certified Product Owner • Certified Scrum Trainer • Lean Software Development Practitioner • Project Management for Enterprise Teams • Project Management for Small Teams • Scaled Agile Practitioner • Kanban Practitioner • Maya • Softimage • DevOps • Photoshop • Illustrator • Premiere • InDesign • English Literature • Japanese • Welsh • Mathematics • Real-Time Rendering • Sports Massage Therapy • Technician Class Radio Amateur Operator and many more.

SKILLS

Technical Skills: Artificial Intelligence, Deep Learning, Machine Learning * Machine Vision * Augmented Reality * Virtual Reality * Cross-Platform Development * Game Development * Low-Level Systems Programming * Optimized Build Pipelines * Motion Control Systems & Robotics * Hardware Interfacing * Autonomous Aircraft & Vehicles * Containers & Virtualization & Emulation * Sensor Fusion & IoT * Microservices * Driver Development * GPU Programming * CI/CD Pipelines * Video Processing & Transcoding * Compiler & Interpreter Development * Low-Latency (sub 60ms) Glass-to-Glass Live Streaming * Parallel & Distributed Systems * Networked Applications * Server Programming * System Architecture * SaaS * Composable Infrastructure

Soft Skills: Team-Building • Engineering Hiring • Crisis Management • Social Media Marketing • Corporate Training & Teaching • Client Relationships • Public Speaking & Presenting • Agile Methodologies

Business Skills: Accounting • Business Development • Entrepreneurship • Negotiation • Raising Start-Up Funding • Team Leadership • International Project Management • Cross-Functional Project Management

Languages: C++ • C • Assembler • Ruby • C# • Go • Rust • LINQ • SQL • N1SQL • JavaScript/Typescript • Java • Perl • Python • Lua • Kotlin

Technologies: DirectX • OpenGL • OpenCL • .NET • MVC.NET • OpenWRT • Qualcomm router OS • Unity3D • Unreal Engine • nodejs • NHibernate • Entity Framework • OpenCV • Accord • PyTorch • CUDA • TensorFlow • YOLO • Accord • Underscore.js • Processing.js • Backbone.js • Redis • Couchbase • RabbitMQ • Regular Expressions • Microsoft CNTK • Microsoft Speech Recognition System

Platforms: Windows • Linux • RTOS • macOS • OpenWRT • Playstation • XBOX • Switch • x86 • ARM • Embedded Firmware • iOS • Android

Software: Docker • Kubernetes • VMWare ESX • Vagrant • Chef • Puppet • NGINX • Jenkins • TeamCity • Apache • MySQL • MSSQL • SVN • Git • Perforce • Visual Studio • Intelli]