

Bobby Martin

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WORK EXPERIENCE

Kumospace – Software Engineer | Remote

Jun 2021–Feb 2023

- \$22 million series A funding raised for remote office/telepresence project built with team of three engineers, growing user base from one million to four million
- Introduced new self-serve payment flow through close collaboration with sales team, transitioning platform from free to paid and paving way for \$1 million run rate
- Researched and adopted contemporary video streaming API, allowing video files to be streamed from peer to peer and unblocking company's first enterprise deal
- Pitched, designed, and implemented upwards of 15 major features in absence of a product manager
- Advocated from developer's perspective in product design meetings, insisting new features stay conceptually and technically simple, ensuring product's maintainability and reducing technical debt
- Set precedent for engineers to publish short, informal documents defining new features, which captured discussion and reduced need for meetings with sales, leadership, and other stakeholders
- Dissected graphics management engine to make small enhancement which reduced app's CPU usage by 40%
- Worked with head of data to conceptualize and maintain complex algorithm tracking spoken interaction between users
- Taught self OpenCV in an afternoon to change virtual furniture's base color on the fly, winning company hackathon
- Using React portals, solved perennial technical debt that was previously deemed unsolvable by engineering team
- Shipped three features within first week of employment
- Praised by CEO and head of engineering for speed in learning React and front-end engineering
- Shipped small quality-of-life improvements like tooltips and keyboard shortcuts on weekly basis

Amazon Robotics – Automated Quality Assurance Engineer | North Reading, MA

Sep 2018–Apr 2021

- Learned architecture of faulty upstream services and cultivated relationships with each owning team, cutting issue resolution time from one or two days to ten or fifteen minutes
- Decomposed cumbersome housekeeping tasks into small Python and Bash scripts to be used as building blocks in shell pipelines. Inspired by UNIX philosophy and lauded by teammates as "huge time-saver"
- Adapted wheeled, remote-control football dummy for use as moving obstacle on test course for automated vehicles, deconstructed dummy's stock C++ firmware (PX4) to simplify L1 navigation component for project's needs
- Fostered relationship with football dummy supplier, clearing road blocks and improving firmware via calls and email
- Mastered Amazon-internal test framework to automate manual test cases for three new programs, outfitted framework with step-level callback hooks to improve granularity of reporting and reduce triage time
- Investigated cause of failed regression tests on a nightly basis, issued detailed Jira tickets to service owners

SOFTWARE PROJECTS

Marine Advanced Technology Education (MATE) Underwater ROV Competition – Software lead

Sep 2017–Jun 2018

- Collaborated with cross-functional team of electrical and electromechanical engineers to build tele-operated submarine
- Added extra pilot to control scheme in a pinch, allowing team to qualify for competition amidst tight deadlines
- Conceptualized and constructed asynchronous micro-service architecture using Node.js to run on-board robot
- Architecture featured core module with control allocation matrix, and worker processes for sensors and end-effectors
- Home-brewed JSON wire protocol was modeled after experience at Jibo Inc. working on remote-control robotics

CO-OP EXPERIENCE

Jibo Inc. – Software Quality Assurance Co-op | Boston, MA

Sep 2017–Dec 2017

- Authored automated test vice for authentication workflow of Jibo's remote-control 'Commander' skill
- Acceptance tested components of Commander skill as they were completed

Relay Therapeutics – Bioinformatics Co-op | Cambridge, MA

Jan 2017–May 2017

- Developed Python/Django/PostgreSQL app that increased crystallographic structure building capacity by factor of 800%
- Wrote script to send weekly email showcasing newly registered compounds and their chemical properties

EDUCATION

Wentworth Institute of Technology | Boston MA

Sep 2014–Aug 2018

Bachelor of Science in Computer Science