John Cullen

SOFTWARE ENGINEER

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github.com/jscul
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TECHNICAL SKILLS

PROFICIENT WITH:

JavaScript (ES6), Python 3, Node.js, Express, React, HTML5, CSS3/Sass, GraphQL, MySQL, PostgreSQL, MongoDB, Git, Linux, Docker, AWS, OOP

OTHER TECHNICAL SKILLS:

- Provided insight into the technical overhead of requested features and scope enhancements; clearly communicated challenges and blockers to clients and project managers
- Experience reading white papers on different ML libraries for both accuracy and speed; along with in-depth testing of those libraries
- Knowledge of cybersecurity best-practices and effective methods of patching vulnerable systems

SOFT SKILLS:

- Assisted project managing software applications on deadline for release
- Collaborated with R&D teams, other software engineers, UI/UX designers, and project managers remotely
- Presented live in-person product demonstrations to clients and investors with technical explanation

TOOLKIT:

- Redux, Express, Jest, React Router, ChartJS, OAuth, Yarn, Firebase, Twilio, PixiJS, ESLint, CryptoJS
- Flask, OpenCV, PIL, NumPy, FFmpeg
- VS Code, Postman, Jira/Trello, Agile Development

EDUCATION

SANTA MONICA COLLEGE (2017)

1. **Computer Science, AS** | With Honors
2. **Computer Programming, AS** | With Honors

UNIVERSITY OF CALIFORNIA, SAN DIEGO (2015)

3. **Political Science, BA**

CONTINUED EDUCATION (2019-PRESENT)

4. **MIT OpenCourseWare, AlgoExpert,**

WORK EXPERIENCE

DOGTOWN MEDIA | SOFTWARE ENGINEER (2018-2020)

Worked on projects for National Eczema Association, Bristol Myers Squibb, When Georgia Smiled, National Sleep Foundation, and an R&D venture capital firm

- Optimized **searching and clustering algorithms** of large datasets using **NumPy** with respect to time and space complexity; analyzed prediction rates of ML models
- Routinely retrained and retested models housed on **AWS** servers with measurable accuracy improvements
- Built RESTful **APIs** for adding training data, queuing a training cycle, tracking progress, and making predictions using **TensorFlow** (**Turi Create** for iOS)
- Created **Lambda functions** for image manipulation w/ **PIL**
- Developed and deployed **GraphQL** and **RESTful** servers; handled authorization through **AWS Cognito** and custom made solutions; hosted and delivered sensitive user data via **S3**; utilized iOS/Android/web **push notifications**; created a web/SMS communication channel with **Twilio**
- Built **responsive web** apps using **React**; built iOS and Android apps using **React Native**; tracked user-flow with **Google Analytics** (Firebase); gave a company talk on **PWAs**
- Responsible for live **EB** and **RDS** instances with thousands of active users; handled migrations, backups, and deploys

FULL-STACK WEB DEVELOPER | FREELANCE (2017-2018)

Constructed LAMP servers (Linux, Apache, MySQL & PHP) leveraging the PayPal API for recurring and one-time payments

- React frontends with **LAMP**-based servers on shared hosting services (FileZilla for deployment)
- Handled networking and managed client expectations

LACOFD | OCEAN LIFEGUARD | PEACE OFFICER (2014-PRESENT)

First responder, made imperative decisions in high stress environments, friend to the community, enforced ordinances

All documents demonstrating accomplishments are available upon request as well as references. Some recommendations and endorsements can be found publicly at linkedin.com/in/jscul.