Ali Shelton

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Education

UC Berkeley
B.S. Electrical Engineering and Computer Science - 3.775

May 2019
Berkeley, CA

○ Relevant Coursework: Algorithms, Operating Systems, Data Structures, Security, AI, Databases, Machine Learning *(IP)*, Multivariable Calculus, Linear Algebra, Discrete Math and Probability Theory, Japanese *(2 yrs.)*

Experience

Amazon
Software Development Engineer Intern, Elastic Block Store

Summer 2018
Seattle, WA

○ Developed and tested a new service for periodically polling trouble ticketing systems and performing root cause investigations

○ Integrated multiple internal APIs and dependency injection frameworks to develop the tool at production-level standards compliant with scalable cloud systems

○ Held demonstrations and discussed deliverable design with team to develop clear and concise documentation

UCSF Medical Center, Department of Radiology
Deep Learning Research Intern, Shepherd Lab

Summer 2017
San Francisco, CA

○ Developed and trained convolutional neural networks on DXA hip and spine scans to detect and diagnose osteoporosis in adolescents

○ Developed and analyzed single and multi input ResNet and Inception v3/v4 models trained on DXA Scans using Keras and TensorFlow APIs

○ Developed a now lab-standard script to retrieve and format images from low level file encoding received from lab instrumentation

○ Developed and presented lab presentations on deep learning and neural networks in computational biology

VenueNext
Mobile Client Development Intern, Mobile Client Development

Summer 2016
New York, NY

○ Implemented a production-level user interface for a company client application

○ Developed large-scale UI JSON configurations for production-level mobile applications

Skills

Languages: Java, Python, C, HTML, CSS, SQL, MATLAB, LaTeX

Cloud: AWS (EC2, DynamoDB, S3)

Machine Learning: Keras, Tensorflow, Numpy, Scipy

Projects

Pixplore: Built, released, and updated a social media app allowing users to post, discover, and get directions to unique, potentially off-the-grid locations through an image-based social feed. *(app was live from 2016 to 2017)*

Secure Key-Value Store: Designed and built a cryptographically secure and efficient key-value store that enabled encrypted file-sharing.