Phone: (858) 610-0566
Email: vasko6d@gmail.com
Website: david.vaskos.com
(under construction see 'vasko6d' on GitHub)

David Vasko

Overview

Avid rock climber with a passion for programming in Machine Learning applications: image recognition, NLU, computer vision, autonomous navigation systems and other deep learning topics. Coming from 2 years of industry experience with practical application of facial recognition in EMPI Matching Algorithms I want to continue pursuing similar challenges.

Education

Masters of Science: UCLA **Graduated June 2015**

Major: **Aerospace Engineering (3.68 GPA)**
Focus**: Systems and Control**

Bachelors of Science: UCLA **Graduated June 2014**

Major: **Mechanical Engineering (3.89 GPA, Summa Cum Laude)**
Technical Breadth: **Computer Science**

Work Experience

Solutions Architect: NextGate Solutions **March 2016 – March 2018**

Worked with Java, Java EE, and internet technologies (AngularJS) to create and maintain Java and web applications for customers and for NextGate. Prominent projects: EMPI implementation, data integration and workflow tools for Ascension Health and Northern Territories Australia, as well as facial recognition for identification and matching algorithms.

SolidWorks 2014 Beta Support: Dassault Systemès **Summer 2013**

Direct line of support with customers for the SolidWorks 2014 Beta at the Woodland Hills office in Los Angeles.

Teaching Assistant: UCLA **Fall 2014 – Winter 2016**

Administrated labs and discussions for both the Mechanical Engineering and Life Science departments. Awarded "Certificate of Distinction in Teaching" by the UCLA Life Sciences Division.

Rockwall Supervisor: UCLA Recreation **Spring 2013 – Spring 2014**

Notable Projects

- Facial recognition for EMPI matching algorithms – *Python, Docker, Java, ZeroMQ, OpenFace, Torch and Lua*
- EMPI implementation and data integration for millions of records with hundreds of thousands of daily message volume and real time address validation – *Java, Apache Karaf, Apache Camel, SOAP, HL7v2, HL7v3, Unix*
- EMPI Workflow Tools – *Java, AngularJS*
- Autonomous collection and deployment robot – *LabView, SolidWorks*
- 3D sandbox game – *JavaScript, webGL*
- Finite element solver for membranes under plane stress condition – *MATLAB*
- Finite volume solver for 2D flow – *MATLAB*
- Short Tandem Repeat Analysis of DNA Sequences – *R*

Programming Languages and Technologies

- Python, Java, C++, MATLAB, R, JavaScript, LabView, Lisp, SQL, Ruby, Unix, bash, sed
- Docker, WebGL, AngularJS, Vue, Node, OSGi, Ruby on Rails, Apache Camel, Apache Karaf

References

- Gevik Nalbandian, *VP of Software Engineering at NextGate* – zgev@yahoo.com
- Dan Cidon, *CTO at NextGate* – dan.cidon@nextgate.com
- Tony Tsao, *Senior Manager at Dassault Systèmes Solidworks* – tonytsao@gmail.com
- Will Conley, *Math Professor at UCLA* – wconley@ucla.edu