Domas A Buracas

dominykas@berkeley.edu • +1 (858) 531-8039 • http://axquaris.github.io/

EDUCATION

University of California - Berkeley, Berkeley, California, USA

- B.A. in Computer Science — Aug 2017 – May 2021
  - Current Coursework: Discrete Mathematics and Probability Theory (CS70), Structure and Interpretation of Computer Programs (CS61A), Data Science (CS 198-82), Linear Algebra (MATH54)

Princeton University, Princeton, New Jersey, USA

- Program in Algorithmic and Combinatorial Thinking (PACT) — Jun 2017 – Jul 2017

SKILLS

Languages: Java (4 years), Python (6 years), Processing, JavaScript, HTML/CSS.
Libraries/Frameworks: OpenCV, Numpy, Tensorflow, Robot Operating System (ROS), Box2D (via Fisica), Selenium, PyQt, AngularJS, Bootstrap, jQuery.
Tools: Git/Github, Windows, OSX, Linux (Ubuntu 14.04, 16.04), Eclipse, Pycharm, QT Creator, Solidworks, Adobe Photoshop, Microsoft Suite.

INTERESTS

Bio-inspired AI, Software Development, Robotics, Machine Learning, Cognitive Science

WORK EXPERIENCE

eWorldWideWeb, Inc. (ew3.com)

- Web Automation Developer — Jun 2014 – Sep 2015
  - Started as an Assistant Editor but was promoted after proposing solutions to automate domain-trading
  - Implemented domain-trading algorithms and UI for non-technical users

Veriskin, Inc. (veriskin.com)

- Computer Vision Intern — Jul 2016 – Sep 2016
  - Devised algorithms to perform noninvasive diagnostics on cancerous skin using hemodynamics

Neurotechnology (neurotechnology.com)

- Visiting Robotics Intern — Aug 2017
  - Gave talk on merits of US's FIRST Robotics Competition and feasibility of starting such a competition in Lithuania
  - Learned fundamentals of ROS framework and company's SLAM algorithm

PERSONAL PROJECTS

Microbial Ecosystem Simulation, on axquaris.github.io as Ecoblobs

- Developed an object-oriented framework for simulating the interactions of simple organisms
- Implemented diagnostic tools to quantify the effects of modifying environment features such as ocean currents and sunlight

Object Detection and Recognition Demo

- Applied a neural network pre-trained by Google to detect and identify household objects in a live video feed
- Made use of Tensorflow (installed with GPU support) and OpenCV to build the demo

Neural Pattern Generator, on axquaris.github.io as AxNet

- Implemented a neural oscillator network based on a research paper about "Modular Reactive Neurocontrol for Biologically Inspired Walking Machines"

CAMPUS ACTIVITIES

FIRST Robotics Team 2984, La Jolla High School

- Mechanical Engineer — Sep 2013 – May 2015
  - Worked with a small team to design, machine, assemble, and maintain the robot chassis and manipulator
- Vice President of Engineering — Sep 2015 – May 2017
  - Responsible for setting and enforcing feature deadlines
  - Modernized team's design process by introducing CAD software to specify design parameters with much greater detail than paper blueprints
  - Implemented a Trello board system to break down feature deadlines into bite-sized chunks that individuals could act on, improving productivity and engagement significantly

LANGUAGES

English (Native language), Lithuanian (Fluent)

REFERENCES

Available upon request.