Mike Bobak - Knowledge-Engineer / Research-Programmer

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EXPERIENCE

Freelance —Knowledge-Engineer/Ontologist /2011-present (San Francisco)
Semantics/data-sci consulting, including. IoT, CMS, pharma-ontologies.

Apollo Group — Architect, Adaptive Learning Platform /2010-11 (San Francisco)
Semantic annotation of tests and related study materials so needs could be surfaced.

UCSF — Programmer/Analyst III /2007-10 (San Francisco)
Semantic annotation of clinical trial entrance descriptions to automake induction.

Freelance — Knowledge-Engineer/Programmer /2001-07 (Chicago/Boston)
Brightware-like follow on rule-based consulting, including Verizon and others.

Beckman Institute — Research Programmer /1998-2001 (Champaign)
Coordinated software teams to make an immersive intelligent simulation tutor.

Brightware — Knowledge-Engineer/Programmer /1996-98 (Chicago)
Helped design and did first install of an automated email answering system, and more.

Institute of Learning Sciences — Lead Programmer/Analyst /1996 (Evanston)
Extended a model-based explainable simulation/Intelligent-Tutoring-System.

Argonne National Lab — Software Engineer /1993-96 (Argonne)
Wrote expert-system for EPA, then knowledge-guided distributed eco-simulation.

EDUCATION

University of Illinois, Urbana-Champaign — *MS Biophysics/Combio/AI*
Wrote well-used molecular viz/minip package. Thesis: Knowledge-Guided Simulation.

University of Illinois, Urbana-Champaign — *BS Physics, BS Biophysics*
Included work/study at an allied lab, writing acoustics simulation, taking data and more.

More detailed resumes at:
http://notional.no-ip.org/michael-bobak.html

http://mike.bobak.googlepages.com/m-bobak.pdf

SKILLS

AI

Artificial Intelligence
Adaptive-Systems
Computational-Intelligence

Business-Rules/Expert-Systems Case-Based-Reasoning
Intelligent Agents/Systems

Onto/Knowledge-Eng,Kn-Based-Systems
Ontology/Taxonomy Dev
Controlled Vocabularies
Conceptual/Decision-Modeling Knowledge-Representation
Logic-Programming

Natural Language Processing/Understanding
Text Classification SNOMED

Semantic:Web, Search Information Access/Extraction/Retrieval

Data Mining/Machine-Learning Data-Analysis

Model-based-reasoning
Composite Applications Causal Inference Intelligent-Tutoring- Systems

Science

Research Scientific Viz/Simulation

Computational-Science
Math/(Bio) physics

Others

HPC/Cloud-Computing: Mapreduce/Hadoop

Exploratory-Programming, Dynamic Languages,Common Lisp etc.