Mike Bobak

Knowledge-Engineer / Research-Programmer

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EXPERIENCE

Freelance, SF —Knowledge-Engineer/Ontologist   2011-present

Data-science/semantics study/projects and work, incl IoT, CMS, pharma-ontologies.

ApolloGrp.edu, SF — Architect, Adaptive Learning Platform   *2010-11*

Semantic annotation of tests and related study materials so needs could be surfaced.

UCSF.edu, SF — Programmer/Analyst III   *2007-10*

Semantic annotation of clinical trial entrance descriptions to automake induction.

Freelance, Chicago/Boston —Knowledge-Engineer/Programmer 01-07

Brightware like follow on rule-based consulting, incl Verizon and many other places.

kbs.ai.UIUC.edu, **Beckman Inst** —(sr)Research-Programmer *1998-2001*

Coordinated software teams to make an immersive intelligent simulation tutor.

Brightware, Chicago —Knowledge-Engineer/Programmer   1996-98

Helped design and did first install of an automated email answering system.

Inst of Learning Sciences, Evanston, IL—Lead Programmer/Analyst *96*

Extended a model-based explainable simulation/Intelligent-Tutoring-System.

Argonne National Lab, Argonne, IL — Software Engineer   *1993-96*

Wrote expert-system for EPA, then knowledge-guided coupled 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 & more.

Expanded versions 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 ReasoningIntelligent Agents/Systems

Onto/KnowledgeEng,KnBased SysOntology/Taxonomy Dev Controlled Vocabularies Conceptual/Decision Modeling Knowledge Representation LogicProgramming

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

ComputationalSci Math/(Bio) physics

Others

HPC/Cloud Computing: Mapreduce/Hadoop

ExploratoryProgramming, Dynamic Languages,Common Lisp etc.